

ship July 4

Work Order ID 146731

146731

Page 1

Friday, May 20, 2016 3:37:23 PM

Item ID: 647.7304 Accept ***N900040100*** Setup Start ***NS1***
 Revision ID: Stop ***NS2***
 Item Name: EC135 T2/P2 Cable Cutters System
 Start Date: 6/15/2016 Start Qty: 1.00 ***1*** Cust Item ID:
 Required Date: 7/4/2016 Req'd Qty: 1.00 ***1*** Customer:
 Reference:

Approvals: Process Plan: dem Date: 16/05/24 Tooling: _____ Date: _____
 QC: _____ Date: _____ SPC (Y/N): _____ Date: _____

Run Start ***NR1***
 Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
--------------------------------	--------------------------	----------------------	---------	--------	--------------	---------------	---------------	------------------	----------------

Draw Nbr	Revision Nbr								
647.7300	B	MAY 27 2016	DAS 6 9-89						
100	Document Control	0.00							
100	DOCUMENT CONTROL								
DC	Memo	0.00							
Doc.Control -USB or Paperwork	Photocopy bluefile & type labels per PPP 647.7304								
110	Pick Kit	0.00							
110									
Packaging	Memo	0.00							
Packaging									
120	QC4- 100% Inspect kits for completeness	0.00							
120									
QC	Memo	0.00							
Quality Control									

DAS
27
9-89

JUL 04 2016

MAY 27 2016

DAS
28
9-89

DAS
27
9-89

JUL 05 2016

DQA: _____ Date: _____

**WORK ORDER NON-CONFORMANCE / UPDATE**

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval		
Description Work Order Deviation				Disposition				Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval	
Root Cause		FAULT CATEGORY							
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐				
Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐				
Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐				
Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐				
Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐				
Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐				
Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐				
Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐				
LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐				
Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐				
-Past Expiry Date ☐	Manufacturing Process ☐								
Misidentified ☐	Past Due ☐	OTHER : _____							

Work Order ID 146731***146731***

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Friday, May 20, 2016 3:37:23 PM

Item ID: 647.7304

Accept

N900040100Setup Start ***NS1***

Revision ID:

Stop ***NS2***

Item Name: EC135 T2/P2 Cable Cutters System

Start Date: 6/15/2016 Start Qty: 1.00

1

Cust Item ID:

Required Date: 7/4/2016 Req'd Qty: 1.00

1

Customer:

Reference:

Approvals: Process Plan: _____ Date: _____ Tooling: _____ Date: _____
QC: _____ Date: _____ SPC (Y/N): _____ Date: _____

Run Start ***NR1***Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
130	Packaging	0.00							
130									
Packaging	Memo	0.00				DAS 28 9-89	DAS 27 9-89		
Packaging	Identify and pack for shipping as per PPP 647.7304 Location: 								
140	QC21- Final Inspection - Work Order Release	0.00							
140									
QC	Memo	0.10					DAS 21 9-89	JUL 05 2016	
Quality Control									

JUL 05 2016

Sta 7/5/16

DQA: _____ Date: _____

**WORK ORDER NON-CONFORMANCE / UPDATE**

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
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Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐				
Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐				
Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐				
Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐				
Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐				
Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐				
Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐				
Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐				
LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐				
Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐				
Past Expiry Date ☐	Manufacturing Process ☐								
Misidentified ☐	Past Due ☐	OTHER :							

Picklist Print

Friday, May 20, 2016 3:37:30 PM

Page 1

Work Order ID: 146731

146731

Parent Item: 647.7304

647 7304

Parent Item Name: EC135 T2/P2 Cable Cutters System

Start Date: 6/15/2016

Required Date: 7/4/2016

Start Qty: 1.00

Required Qty: 1.00

Comments: IPP REV:A 16.04.27 NEW ISSUE DD VERF:JLM

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
647.7501 *647 7501* Lower Cutter Assembly		Manufactured	No				Each	0.0000	**	1			DAS 28 9-89
647.1601 *647 1601* Wiper Deflector Aft		Manufactured	No				Each	10.0000	**	1			DAS 28 9-89
				<u>Location</u>			<u>Loc Qty</u>	<u>Loc Code</u>					
				CCK091			10						
					123044		10						
647.1610 *647 1610* Wiper Deflector Fwd		Manufactured	No				Each	8.0000	**	1			DAS 28 9-89
				<u>Location</u>			<u>Loc Qty</u>	<u>Loc Code</u>					
				CCK091			8						
					92599		2						
					93367		1						
					M130388		5						
647.1913 *647 1913* Tee		Manufactured	No				Each	23.0000	**	1			DAS 28 9-89
				<u>Location</u>			<u>Loc Qty</u>	<u>Loc Code</u>					
				CCK093			23						
					114126		6						
					92229		10						
					94139		5						
					M130388		2						

JUN 29 2016

JUN 29 2016

JUN 29 2016

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval		
Description Work Order Deviation				Disposition				Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval	
Root Cause		FAULT CATEGORY							
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐				
Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐				
Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐				
Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐				
Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐				
Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐				
Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐				
Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐				
LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐				
Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐				
Past Expiry Date ☐	Manufacturing Process ☐								
Misidentified ☐	Past Due ☐	OTHER :							

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Work Order ID: 146731

146731

Parent Item: 647.7304

647 7304

Parent Item Name: EC135 T2/P2 Cable Cutters System

Start Date: 6/15/2016

Required Date: 7/4/2016

Start Qty: 1.00

Required Qty: 1.00

647.1915 Manufactured No

Each 32.0000 1

647 1915

Support Angle

DAS 26
9-89 9-89

DAS
27
9-89

Location

Loc Qty

Loc Code

CCK093

32

114127

6

92230

9

93416

3

94786

2

M130388

12

647.1814 Manufactured No

Each 38.0000 1

647 1814

Gusset LH

JUN 07 2016
DAS 28
9-89

DAS
27
9-89

DAS
28
9-89

Location

Loc Qty

Loc Code

cck023a

6

92075

6

CCK032a

24

M130388

24

CCK110

8

106843

3

92535

1

93333

4

DAS
6
9-89

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐																																																													
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Misidentified ☐	Past Due ☐																																																																

Picklist Print

Friday, May 20, 2016 3:37:30 PM

Page 3

Work Order ID: 146731

146731

Parent Item: 647.7304

647 7304

Parent Item Name: EC135 T2/P2 Cable Cutters System

Start Date: 6/15/2016

Required Date: 7/4/2016

Start Qty: 1.00

Required Qty: 1.00

647.1815 Manufactured No

Each 36.0000 1

647 1815

Gusset RH

DAS
6

DAS
28
9-89

DAS
27
9-89

Location

Loc Qty

Loc Code

CCK032a

24

M130388

24

CCK110

12

106681

3

92013

1

92076

4

92492

4

JUN 07 2016

647.7702 Manufactured No

Each 0.0000

647 7702

Strut Assembly

647.7701

Manufactured No

Each

1.0000

647 7701

Strut Assembly

~~146723~~

2

2

DAS
28
9-89

146722x1

DAS
28
9-89

DAS
27
9-89

Location

Loc Qty

Loc Code

CCK114

1

M130388

1

647.1818 Manufactured No

Each 35.0000

647 1818

Nose Door Spacer

1

DAS
6

DAS
28
9-89

MAY - 7 2016

Location

Loc Qty

Loc Code

CCK032a

24

M130388

24

CCK110

11

92016

1

92079

6

92525

1

93302

3

JUN 11 7 2016

Friday, May 20, 2016 3:37:30 PM

Shop Packet Print

Page 3

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐																																																													
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Description Work Order Deviation				Disposition				Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval																																																									
Root Cause		FAULT CATEGORY																																																															
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐	Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐	Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐	Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐	Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐	Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐	Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐	Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐	LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐	Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐	Past Expiry Date ☐	Manufacturing Process ☐	OTHER : _____			
Misidentified ☐	Past Due ☐																																																																

Picklist Print

Page 4

Friday, May 20, 2016 3:37:30 PM

Work Order ID: 146731

146731

Parent Item: 647.7304

647 7304

Parent Item Name: EC135 T2/P2 Cable Cutters System

Start Date: 6/15/2016

Required Date: 7/4/2016

Start Qty: 1.00

Required Qty: 1.00

647.1810

Manufactured No

Each

25.0000

1

DAS
6
9-89

647 1810

Nose Door Doubler

DAS
28
9-89

DAS
27
9-89

Location

Loc Qty

Loc Code

CCK108

25

92008

1

92070

6

92519

1

93293

3

M130388

14

647.0112

Manufactured No

Each

76.0000

4

647 0112

Strut Bracket

DAS
28
9-89

DAS
27
9-89

Location

Loc Qty

Loc Code

CCK107

18

140968

18

CCK108A

58

142661

58

647.7910

Manufactured No

Each

10.0000

2

647 7910

Angle Bracket

DAS
28
9-89

DAS
27
9-89

Location

Loc Qty

Loc Code

CCK115

10

93329

6

M130388

4

DAS
6
9-89

JUN 17 2016

DQA: _____ Date: _____

WORK ORDER NON-CONFORMANCE / UPDATE



QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐							
Date :		Step #:		QTY Effective :			MRB (QS1042) Approval				
Description Work Order Deviation				Disposition				Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval			
Root Cause		FAULT CATEGORY									
Environment	☐	No Re-verification	☐	Pressure/Forced	☐	Temperature/Cure	☐	Power Loss/Surge	☐	Positioned Wrong	☐
Design	☐	Operator	☐	Bending	☐	Set-up	☐	Folio/Program	☐	Outside Dimensions	☐
Doc/Data	☐	Offset/Setup	☐	Centre Not Concentric	☐	BOM/Route	☐	Grain	☐	Over/Under tolerance	☐
Equip/Tooling	☐	Supplier	☐	Cracks	☐	Broken/Damage/Defect	☐	Weld	☐	Part Incorrect	☐
Handling/Pre	☐	Training	☐	Crimp/Kink/Ripple/Wave	☐	Inspection Incomplete/Unqualified	☐	Wrong Stock Pulled	☐	Part Lost/Missing	☐
Material	☐	Use for Testing	☐	Cuffs	☐	Contamination	☐	Out of Sequence	☐	Part Moved	☐
Internal Transport	☐	Poor Information	☐	Crushing	☐	Countersink	☐	Off-set	☐	Drawing	☐
Tribal Knowledge	☐	Rushing	☐	Heat Treat	☐	Cut Too Short	☐	Mislabeled	☐	Finish	☐
LOA	☐	Product Improvement	☐	Wave/Twist in Tube	☐	Instructions Incomplete/Unclear	☐	Fit/Function	☐	Misread	☐
Substation	☐	Process Improvement	☐	Marks/Chatter	☐	Drill Holes	☐	Misaligned/off center	☐	Turning Sequence	☐
Past Expiry Date	☐	Manufacturing Process	☐	OTHER :							
Misidentified	☐	Past Due	☐								

Picklist Print

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Work Order ID: 146731

146731

Parent Item: 647.7304

647 7304

Parent Item Name: EC135 T2/P2 Cable Cutters System

Start Date: 6/15/2016

Required Date: 7/4/2016

Start Qty: 1.00

Required Qty: 1.00

647.7911 Manufactured No

Each 19.0000

2

647 7911

Bracket

DAS

6

~~9-89~~

DAS

28

~~9-89~~

DAS
27
9-89

Location

Loc Qty

Loc Code

CCK032a

14

M130388

14

CCK115

5

93383

5

2

Each

20.0000

4

DAS

6

~~9-89~~

DAS

28

~~9-89~~

647.7912 Manufactured No

647 7912

Clip

DAS
27
9-89

Location

Loc Qty

Loc Code

CCK115

20

93312

12

M130388

8

4

Each

10.0000

2

DAS

6

~~9-89~~

DAS

28

~~9-89~~

647.7913 Manufactured No

647 7913

Doubler

DAS
27
9-89

Location

Loc Qty

Loc Code

CCK115

10

93270

6

M130388

4

2

Each

7.0000

1

647.7914 Manufactured No

647 7914

Bracket

DAS
27
9-89

Location

Loc Qty

Loc Code

CCK115

7

93215

4

M130388

3

DAS
6
9-89

DAS

28

~~9-89~~

DAS

28

~~9-89~~

JUN 07 2016

Friday, May 20, 2016 3:37:30 PM

Shop Packet Print

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DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

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Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :				MRB (QSI042) Approval 	
Description Work Order Deviation				Disposition					
								Completed By	
								Lead hand / Supervisor Approval Verification	
								QC / QA Coordinator Approval	

Root Cause				FAULT CATEGORY			
Environment ☐	Design ☐	Doc/Data ☐	Equip/Tooling ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐
Handling/Pre ☐	Material ☐	Internal Transport ☐	Tribal Knowledge ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐
LOA ☐	Substation ☐	Past Expiry Date ☐	Misidentified ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐
				Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐
				Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐
				Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐
				Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐
				Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐
				Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐
				Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐
				OTHER : ☐			

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Work Order ID: 146731

146731

Parent Item: 647.7304

647 7304

Parent Item Name: EC135 T2/P2 Cable Cutters System

Start Date: 6/15/2016

Required Date: 7/4/2016

Start Qty: 1.00

Required Qty: 1.00

647.7915 Manufactured No

Each 16.0000 1

647 7915

Bracket

DAS
28
9-89
DAS
6
9-89

Location Loc Qty Loc Code

CCK032a 13

M130388 13

cck116 3

93301 3

DAS
27
9-89

647.7916 Manufactured No

Each 30.0000 2

647 7916

Bracket

DAS
28
9-89
DAS
6
9-89

Location Loc Qty Loc Code

cck116 30

93287 6

M130388 24

DAS
27
9-89

647.7917 Manufactured No

Each 20.0000 1

647 7917

Bracket

DAS
28
9-89

Location Loc Qty Loc Code

cck023a 14

131356 14

cck116 6

93254 3

M130388 3

DAS
27
9-89

DAS
6
9-89
JUN 07 2016

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Shop Packet Print

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DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :				MRB (QSI042) Approval	
Description Work Order Deviation				Disposition				Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval	
Root Cause		FAULT CATEGORY							
Environment ☐	☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐			
Design ☐	☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐			
Doc/Data ☐	☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐			
Equip/Tooling ☐	☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐			
Handling/Pre ☐	☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐			
Material ☐	☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐			
Internal Transport ☐	☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐			
Tribal Knowledge ☐	☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐			
LOA ☐	☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐			
Substation ☐	☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐			
Past Expiry Date ☐	☐	Manufacturing Process ☐	OTHER :						
Misidentified ☐	☐	Past Due ☐							

Picklist Print

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Work Order ID: 146731

146731

Parent Item: 647.7304

647 7304

Parent Item Name: EC135 T2/P2 Cable Cutters System

Start Date: 6/15/2016

Required Date: 7/4/2016

Start Qty: 1.00

Required Qty: 1.00

647.7918	Manufactured	No	Each	18.0000	.1	DAS 6 28 9-89 9-89
647 7918					**	
Bracket						

<u>Location</u>	<u>Loc Qty</u>	<u>Loc Code</u>
cck116	18	
119630	12	
93385	3	
M130388	3	

647.7819	Manufactured	No	Each	12.0000	1	DAS 6 28 9-89 9-89
647 7819					**	
Cross Bracket Fwd						

<u>Location</u>	<u>Loc Qty</u>	<u>Loc Code</u>
CCK115	12	
130656	3	
M130388	9	

647.7821	Manufactured	No	Each	14.0000	1	DAS 6 28 9-89 9-89
647 7821					**	
Eye Bolt Fitting LH						

<u>Location</u>	<u>Loc Qty</u>	<u>Loc Code</u>
CCK032a	9	
130388	7	
M130388	2	
CCK115	5	
121378	5	

DAS
27
9-89

JUN 27 2016

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐																																																													
Date :		Step #:		QTY Effective :				MRB (QS1042) Approval																																																									
Description Work Order Deviation				Disposition				Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval																																																									
Root Cause		FAULT CATEGORY																																																															
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐	Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐	Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐	Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐	Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐	Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐	Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐	Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐	LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐	Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐	Past Expiry Date ☐	Manufacturing Process ☐	OTHER : _____			
Misidentified ☐	Past Due ☐																																																																

Picklist Print

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Work Order ID: 146731

146731

Parent Item: 647.7304

647 7304

Parent Item Name: EC135 T2/P2 Cable Cutters System

Start Date: 6/15/2016

Required Date: 7/4/2016

Start Qty: 1.00

Required Qty: 1.00

647.7822

Manufactured No

Each

11.0000

1

647 7822

Eye Bolt Fitting RH

DAS 6 28 9-89

DAS 27 9-89

Location

Loc Qty

Loc Code

CCK032a

7

M130388

7

CCK115

4

123827

4

Each

10.0000

1

DAS 6 28 9-89

647.1914

Manufactured No

647 1914

Bracket

DAS 27 9-89

Location

Loc Qty

Loc Code

CCK110

10

109733

9

M130388

1

Each

29.0000

1

DAS 6 28 9-89

647.1602

Manufactured No

647 1602

Doubler Assembly

DAS 27 9-89

Location

Loc Qty

Loc Code

CCK107

29

92067

2

92479

4

M130388

23

MAY - 7 2016

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :				MRB (QSI042) Approval 	
Description Work Order Deviation				Disposition					
								Completed By	
								Lead hand / Supervisor Approval Verification	
								QC / QA Coordinator Approval	

Root Cause				FAULT CATEGORY							
Environment	☐		No Re-verification	☐	Pressure/Forced	☐	Temperature/Cure	☐	Power Loss/Surge	☐	Positioned Wrong
Design	☐		Operator	☐	Bending	☐	Set-up	☐	Folio/Program	☐	Outside Dimensions
Doc/Data	☐		Offset/Setup	☐	Centre Not Concentric	☐	BOM/Route	☐	Grain	☐	Over/Under tolerance
Equip/Tooling	☐		Supplier	☐	Cracks	☐	Broken/Damage/Defect	☐	Weld	☐	Part Incorrect
Handling/Pre	☐		Training	☐	Crimp/Kink/Ripple/Wave	☐	Inspection Incomplete/Unqualified	☐	Wrong Stock Pulled	☐	Part Lost/Missing
Material	☐		Use for Testing	☐	Cuffs	☐	Contamination	☐	Out of Sequence	☐	Part Moved
Internal Transport	☐		Poor Information	☐	Crushing	☐	Countersink	☐	Off-set	☐	Drawing
Tribal Knowledge	☐		Rushing	☐	Heat Treat	☐	Cut Too Short	☐	Mislabeled	☐	Finish
LOA	☐		Product Improvement	☐	Wave/Twist in Tube	☐	Instructions Incomplete/Unclear	☐	Fit/Function	☐	Misread
Substation	☐		Process Improvement	☐	Marks/Chatter	☐	Drill Holes	☐	Misaligned/off center	☐	Turning Sequence
Past Expiry Date	☐		Manufacturing Process	OTHER : _____							
Misidentified	☐		Past Due								

Picklist Print

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Work Order ID: 146731

146731

Parent Item: 647.7304

647 7304

Parent Item Name: EC135 T2/P2 Cable Cutters System

Start Date: 6/15/2016

Required Date: 7/4/2016

Start Qty: 1.00

Required Qty: 1.00

647.1811 Manufactured No

Each 56.0000 2

647 1811

Spacer

Location

Loc Qty

Loc Code

CCK108

56

92009

3

92072

12

92540

2

93341

6

M130388

33

2

DAS
28
6
9-89

DAS
27
9-89

647.1812 Manufactured No

Each 350.0000 13

647 1812

Shim

Location

Loc Qty

Loc Code

CCK107

274

92073

77

M130388

197

CCK108

76

92010

13

92490

14

93192

49

13

DAS
6
9-89

DAS
28
9-89

DAS
27
9-89

647.3201 Manufactured No

Each 9.0000 1

647 3201

Grounding Cable Assembly

Location

Loc Qty

Loc Code

cck111

9

123417

8

M130388

1

1

DAS
6
9-89

DAS
28
9-89

DAS
27
9-89

MAY 27 2016

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐																																																													
Date :		Step #:		QTY Effective :				MRB (QSI042) Approval																																																									
Description Work Order Deviation				Disposition				Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval																																																									
Root Cause		FAULT CATEGORY																																																															
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐	Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐	Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐	Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐	Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐	Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐	Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐	Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐	LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐	Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐	Past Expiry Date ☐	Manufacturing Process ☐	OTHER : _____			
Misidentified ☐	Past Due ☐																																																																

Picklist Print

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Friday, May 20, 2016 3:37:30 PM

Work Order ID: 146731

146731

Parent Item: 647.7304

647 7304

Parent Item Name: EC135 T2/P2 Cable Cutters System

Start Date: 6/15/2016

Required Date: 7/4/2016

Start Qty: 1.00

Required Qty: 1.00

601.3011 Manufactured No

80.5000

1.5

601 3011

P-Seal

DAS
6 28
9-89

DAS
27
9-89

Location

Loc Qty

Loc Code

CCK095

51.5

91709

50

M130388

1.5

CCK099

29

M130388

29

1.5

MS21266-2N

Purchased No

Each

58.0000

1

MS21266-2N

Grommet

DAS
6
9-89
DAS
28
9-89

DAS
27
9-89

Location

Loc Qty

Loc Code

ST294

58

123900

40

M130388

18

AN44-12A

Purchased No

Each

32.0000

2

AN44-12A

Eyebolt

DAS
6
9-89
DAS
28
9-89

DAS
27
9-89

Location

Loc Qty

Loc Code

ST339

32

124131

8

124263

20

m130388

4

AN665-34R

Purchased No

Each

23.0000

4

AN665-34R

Clevis

DAS
6
9-89
DAS
28
9-89

DAS
27
9-89

Location

Loc Qty

Loc Code

ST330

23

M134202

23

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MAY 27 2016

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐																																																											
Date :		Step #:		QTY Effective :				MRB (QSI042) Approval																																																							
Description Work Order Deviation				Disposition				Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval																																																							
Root Cause		FAULT CATEGORY																																																													
Environment ☐	Design ☐	Doc/Data ☐	Equip/Tooling ☐	Handling/Pre ☐	Material ☐	Internal Transport ☐	Tribal Knowledge ☐	LOA ☐	Substation ☐	Past Expiry Date ☐	Misidentified ☐	No Re-verification ☐	Operator ☐	Offset/Setup ☐	Supplier ☐	Training ☐	Use for Testing ☐	Poor Information ☐	Rushing ☐	Product Improvement ☐	Process Improvement ☐	Manufacturing Process ☐	Past Due ☐	Pressure/Forced ☐	Bending ☐	Centre Not Concentric ☐	Cracks ☐	Crimp/Kink/Ripple/Wave ☐	Cuffs ☐	Crushing ☐	Heat Treat ☐	Wave/Twist in Tube ☐	Marks/Chatter ☐	Temperature/Cure ☐	Set-up ☐	BOM/Route ☐	Broken/Damage/Defect ☐	Inspection Incomplete/Unqualified ☐	Contamination ☐	Countersink ☐	Cut Too Short ☐	Instructions Incomplete/Unclear ☐	Drill Holes ☐	Power Loss/Surge ☐	Folio/Program ☐	Grain ☐	Weld ☐	Wrong Stock Pulled ☐	Out of Sequence ☐	Off-set ☐	Mislabeled ☐	Fit/Function ☐	Misaligned/off center ☐	Positioned Wrong ☐	Outside Dimensions ☐	Over/Under tolerance ☐	Part Incorrect ☐	Part Lost/Missing ☐	Part Moved ☐	Drawing ☐	Finish ☐	Misread ☐	Turning Sequence ☐
																								OTHER :																																							

Picklist Print

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Friday, May 20, 2016 3:37:30 PM

Work Order ID: 146731

146731

Parent Item: 647.7304

647 7304

Parent Item Name: EC135 T2/P2 Cable Cutters System

Start Date: 6/15/2016

Required Date: 7/4/2016

Start Qty: 1.00

Required Qty: 1.00

601.3006 Manufactured No

Each 24.0000 2

601 3006

Camloc Receptacle

DAS
6 28
9-89 9-89

DAS
27
9-89

Location

Loc Qty

Loc Code

CCK098

24

M130388

24

2

601.3005 Manufactured No

Each 4.0000 2

601 3005

Camloc Retainer

DAS
6 28
9-89 9-89

DAS
27
9-89

Location

Loc Qty

Loc Code

CCK098

4

M130388

4

2

601.3004 Manufactured No

Each 24.0000 2

601 3004

Camloc Stud

DAS
6 28
9-89 9-89

DAS
27
9-89

Location

Loc Qty

Loc Code

CCK098

24

M130388

24

12

MS21047-3 Purchased No

Each 145.0000 12

MS21047-3

Nut Plate

DAS
28
9-89

DAS
27
9-89

Location

Loc Qty

Loc Code

ST301

145

m134166

95

m134676

50

12

MAY 27 2016
6
9-89

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DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :				MRB (QSI042) Approval	
Description Work Order Deviation				Disposition				Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval	
Root Cause		FAULT CATEGORY							
Environment ☐	☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐			
Design ☐	☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐			
Doc/Data ☐	☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐			
Equip/Tooling ☐	☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐			
Handling/Pre ☐	☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐			
Material ☐	☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐			
Internal Transport ☐	☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐			
Tribal Knowledge ☐	☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐			
LOA ☐	☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐			
Substation ☐	☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐			
Best Expiry Date ☐	☐	Manufacturing Process ☐	OTHER :						
Misidentified ☐	☐	Past Due ☐							

Picklist Print

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Friday, May 20, 2016 3:37:31 PM

Work Order ID: 146731

146731

Parent Item: 647.7304

647 7304

Parent Item Name: EC135 T2/P2 Cable Cutters System

Start Date: 6/15/2016

Required Date: 7/4/2016

Start Qty: 1.00

Required Qty: 1.00

AN3-4A Purchased No

Each 157.0000 2

AN3-4A

Bolt

DAS
27
9-89

Location

Loc Qty

Loc Code

ST350

157

m134502

157

Purchased No

Each 99.0000 4

AN3-11A

AN3-11A

Bolt

DAS
27
9-89

Location

Loc Qty

Loc Code

ST349

99

m134167

99

Purchased No

Each 45.0000 1

AN4CH6A

AN4CH6A

Bolt

DAS
27
9-89

Location

Loc Qty

Loc Code

ST345

45

123525

20

123900

3

m126176

20

m130388

2

Purchased No

Each 40.0000 4

AN4C7A

AN4C7A

BOLT

DAS
27
9-89

Location

Loc Qty

Loc Code

OVER002

20

m133523

20

ST345

20

m133990

20

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DQA: _____ Date: _____

WORK ORDER NON-CONFORMANCE / UPDATE



QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QS1042) Approval		
Description Work Order Deviation				Disposition				Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval	
Root Cause		FAULT CATEGORY							
Environment ☐	☐ No Re-verification	☐ Pressure/Forced	☐ Temperature/Cure	☐ Power Loss/Surge	☐ Positioned Wrong				
Design ☐	☐ Operator	☐ Bending	☐ Set-up	☐ Folio/Program	☐ Outside Dimensions				
Doc/Data ☐	☐ Offset/Setup	☐ Centre Not Concentric	☐ BOM/Route	☐ Grain	☐ Over/Under tolerance				
Equip/Tooling ☐	☐ Supplier	☐ Cracks	☐ Broken/Damage/Defect	☐ Weld	☐ Part Incorrect				
Handling/Pre ☐	☐ Training	☐ Crimp/Kink/Ripple/Wave	☐ Inspection Incomplete/Unqualified	☐ Wrong Stock Pulled	☐ Part Lost/Missing				
Material ☐	☐ Use for Testing	☐ Cuffs	☐ Contamination	☐ Out of Sequence	☐ Part Moved				
Internal Transport ☐	☐ Poor Information	☐ Crushing	☐ Countersink	☐ Off-set	☐ Drawing				
Tribal Knowledge ☐	☐ Rushing	☐ Heat Treat	☐ Cut Too Short	☐ Mislabeled	☐ Finish				
LOA ☐	☐ Product Improvement	☐ Wave/Twist in Tube	☐ Instructions Incomplete/Unclear	☐ Fit/Function	☐ Misread				
Substation ☐	☐ Process Improvement	☐ Marks/Chatter	☐ Drill Holes	☐ Misaligned/off center	☐ Turning Sequence				
Past Expiry Date ☐	☐ Manufacturing Process	OTHER :							
Misidentified ☐	☐ Past Due								

Picklist Print

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Work Order ID: 146731

146731

Parent Item: 647.7304

647 7304

Parent Item Name: EC135 T2/P2 Cable Cutters System

Start Date: 6/15/2016

Required Date: 7/4/2016

Start Qty: 1.00

Required Qty: 1.00

MS21042-08 MS21042L08 Purchased No

Each 33.0000

5

MS21042-08

USE MS21042L08

**

134376

DAS

28

9-89

DAS
27
9-89

Location

Loc Qty

Loc Code

ST304

25

122815

25

ST306

8

m130388

8

Each

18.0000

35

MS21042-3

MS21042L3

Purchased

No

MS21042-3

Nut / use MS21042L3

**

134634

DAS

DAS

28

9-89

DAS
27
9-89

Location

Loc Qty

Loc Code

ST304

18

M129682

18

MS21042L4

Purchased

No

MS21042L 4

Locknut

**

M133316X2
M133363X2

DAS

28

9-89

DAS
27
9-89

Location

Loc Qty

Loc Code

GA

187

m133769

187

OVER007

1500

m134676

500

m134762

1000

ST303

251

m134606

251

ST305

97

m130922

97

MAY 27 2016

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DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :				MRB (QS1042) Approval	
Description Work Order Deviation				Disposition				Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval	
Root Cause		FAULT CATEGORY							
Environment ☐	☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐			
Design ☐	☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐			
Doc/Data ☐	☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐			
Equip/Tooling ☐	☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐			
Handling/Pre ☐	☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐			
Material ☐	☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐			
Internal Transport ☐	☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐			
Tribal Knowledge ☐	☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐			
LOA ☐	☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐			
Substation ☐	☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐			
Past Expiry Date ☐	☐	Manufacturing Process ☐	OTHER : _____						
Misidentified ☐	☐	Past Due ☐							

DQA: _____ Date: _____

WORK ORDER NON-CONFORMANCE / UPDATE



QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval		
Description Work Order Deviation				Disposition				Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval	
Root Cause		FAULT CATEGORY							
Environment ☐	☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐			
Design ☐	☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐			
Doc/Data ☐	☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐			
Equip/Tooling ☐	☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐			
Handling/Pre ☐	☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐			
Material ☐	☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐			
Internal Transport ☐	☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐			
Tribal Knowledge ☐	☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐			
LOA ☐	☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐			
Substation ☐	☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐			
Past Expiry Date ☐	☐	Manufacturing Process ☐	OTHER :						
Misidentified ☐	☐	Past Due ☐							

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Work Order ID: 146731

146731

Parent Item: 647.7304

647 7304

Parent Item Name: EC135 T2/P2 Cable Cutters System

Start Date: 6/15/2016

Required Date: 7/4/2016

Start Qty: 1.00

Required Qty: 1.00

MS21042L5

Purchased

No

Each

555.0000

4

DAS
6
9-89
DAS
28
9-89

MS21042L5

Nut

DAS
27
9-89

Location

Loc Qty

Loc Code

GA

101

m127813

101

OVER007

100

m134509

100

ST303

354

m134055

7

m134567

47

m134676

100

m134762

200

DAS
6
9-89
DAS
28
9-89

MS27039-08-07

Purchased

No

Each

153.0000

1

MS27039-08-07

SCREW

DAS
27
9-89

Location

Loc Qty

Loc Code

ST278

153

m130388

3

m131317

50

m132035

100

MS27039-08-13

Purchased

No

Each

226.0000

4

MS27039-08-13

Screw

DAS
28
9-89

DAS
6
9-89

Location

Loc Qty

Loc Code

ST278

226

124326

226

MAY 27 2016

DAS
27
9-89

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QS1042) Approval Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval		
Description Work Order Deviation				Disposition					
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐							
		OTHER : ☐							

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Work Order ID: 146731

146731

Parent Item: 647.7304

647 7304

Parent Item Name: EC135 T2/P2 Cable Cutters System

Start Date: 6/15/2016

Required Date: 7/4/2016

Start Qty: 1.00

Required Qty: 1.00

MS27039-1-07

Purchased

No

Each

315.0000

3

MS27039-1-07

Screw

DAS
27
9-89

Location

Loc Qty

Loc Code

GA

304

125654

304

Return2016

1

m127813

1

ST281

10

125654

10

3

MS27039-1-09

Purchased

No

Each

217.0000

12

MS27039-1-09

Screw

DAS
27
9-89

Location

Loc Qty

Loc Code

FP001

34

18057

34

GA

36

124859

36

ST280

147

m134167

147

12

MAY 27 2016
DAS 28 9-89

DQA: _____ Date: _____

WORK ORDER NON-CONFORMANCE / UPDATE



QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐																																																											
Date :		Step #:		QTY Effective :				MRB (QS1042) Approval																																																							
Description Work Order Deviation				Disposition				Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval																																																							
Root Cause		FAULT CATEGORY																																																													
Environment ☐	Design ☐	Doc/Data ☐	Equip/Tooling ☐	Handling/Pre ☐	Material ☐	Internal Transport ☐	Tribal Knowledge ☐	LOA ☐	Substation ☐	Past Expiry Date ☐	Misidentified ☐	No Re-verification ☐	Operator ☐	Offset/Setup ☐	Supplier ☐	Training ☐	Use for Testing ☐	Poor Information ☐	Rushing ☐	Product Improvement ☐	Process Improvement ☐	Manufacturing Process ☐	Past Due ☐	Pressure/Forced ☐	Bending ☐	Centre Not Concentric ☐	Cracks ☐	Crimp/Kink/Ripple/Wave ☐	Cuffs ☐	Crushing ☐	Heat Treat ☐	Wave/Twist in Tube ☐	Marks/Chatter ☐	Temperature/Cure ☐	Set-up ☐	BOM/Route ☐	Broken/Damage/Defect ☐	Inspection Incomplete/Unqualified ☐	Contamination ☐	Countersink ☐	Cut Too Short ☐	Instructions Incomplete/Unclear ☐	Drill Holes ☐	Power Loss/Surge ☐	Folio/Program ☐	Grain ☐	Weld ☐	Wrong Stock Pulled ☐	Out of Sequence ☐	Off-set ☐	Mislabeled ☐	Fit/Function ☐	Misaligned/off center ☐	Positioned Wrong ☐	Outside Dimensions ☐	Over/Under tolerance ☐	Part Incorrect ☐	Part Lost/Missing ☐	Part Moved ☐	Drawing ☐	Finish ☐	Misread ☐	Turning Sequence ☐
																						OTHER :																																									

Picklist Print

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Friday, May 20, 2016 3:37:31 PM

Work Order ID: 146731

146731

Parent Item: 647.7304

647 7304

Parent Item Name: EC135 T2/P2 Cable Cutters System

Start Date: 6/15/2016

Required Date: 7/4/2016

Start Qty: 1.00

Required Qty: 1.00

MS27039-1-10

Purchased

No

Each

776.0000

6

MS27039-1-10

SCREW

DAS 68-6
6 82
9-89 DAS

Location

Loc Qty

Loc Code

CA

41

m128635

41

GA

14

m129541

14

over 006

300

m134567

300

OVER007

300

m134676

300

ST280

121

m134370

121

MS27039-1-12

Purchased

No

Each

103.0000

2

MS27039-1-12

Screw

DAS 28
6 9-89
9-89

Location

Loc Qty

Loc Code

over006

50

m134294

50

ST280

53

m133988

53

MAY 27 2016

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DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QS1042) Approval		
Description Work Order Deviation				Disposition				Completed By	
								Lead hand / Supervisor Approval Verification	
								QC / QA Coordinator Approval	
Root Cause		FAULT CATEGORY							
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐				
Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐				
Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐				
Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐				
Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐				
Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐				
Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐				
Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐				
LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐				
Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐				
Past Expiry Date ☐	Manufacturing Process ☐	OTHER :							
Misidentified ☐	Past Due ☐								

Picklist Print

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Friday, May 20, 2016 3:37:31 PM

Work Order ID: 146731

146731

Parent Item: 647.7304

647 7304

Parent Item Name: EC135 T2/P2 Cable Cutters System

Start Date: 6/15/2016

Required Date: 7/4/2016

Start Qty: 1.00

Required Qty: 1.00

MS27039-1-14

Purchased

No

Each

767.0000

4

MS27039-1-14

Screw

DAS
6
9-89
DAS
28
9-89

Location

Loc Qty

Loc Code

GA

94

120449

94

over006

500

124326

500

ST280

173

124326

173

Each

247.0000

1

MS27039-1-15

Purchased

No

MS27039-1-15

Screw

DAS
6
9-89
DAS
28
9-89

Location

Loc Qty

Loc Code

GA

21

m127916

21

ST280

226

m132640

226

Each

376.0000

4

MS27039-1-16

Purchased

No

MS27039-1-16

Screw

DAS
6
9-89
DAS
28
9-89

Location

Loc Qty

Loc Code

over006

300

m134294

50

m134502

250

ST2820

76

m134142

76

MAY 27 2016

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DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QS1042) Approval		
Description Work Order Deviation				Disposition				Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval	

Root Cause			FAULT CATEGORY							
Environment	☐	No Re-verification	☐	Pressure/Forced	☐	Temperature/Cure	☐	Power Loss/Surge	☐	Positioned Wrong
Design	☐	Operator	☐	Bending	☐	Set-up	☐	Folio/Program	☐	Outside Dimensions
Doc/Data	☐	Offset/Setup	☐	Centre Not Concentric	☐	BOM/Route	☐	Grain	☐	Over/Under tolerance
Equip/Tooling	☐	Supplier	☐	Cracks	☐	Broken/Damage/Defect	☐	Weld	☐	Part Incorrect
Handling/Pre	☐	Training	☐	Crimp/Kink/Ripple/Wave	☐	Inspection Incomplete/Unqualified	☐	Wrong Stock Pulled	☐	Part Lost/Missing
Material	☐	Use for Testing	☐	Cuffs	☐	Contamination	☐	Out of Sequence	☐	Part Moved
Internal Transport	☐	Poor Information	☐	Crushing	☐	Countersink	☐	Off-set	☐	Drawing
Tribal Knowledge	☐	Rushing	☐	Heat Treat	☐	Cut Too Short	☐	Mislabeled	☐	Finish
LOA	☐	Product Improvement	☐	Wave/Twist in Tube	☐	Instructions Incomplete/Unclear	☐	Fit/Function	☐	Misread
Substation	☐	Process Improvement	☐	Marks/Chatter	☐	Drill Holes	☐	Misaligned/off center	☐	Turning Sequence
Past Expiry Date	☐	Manufacturing Process	OTHER :							
Misidentified	☐	Past Due								

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Friday, May 20, 2016 3:37:31 PM

Work Order ID: 146731

146731

Parent Item: 647.7304

647 7304

Parent Item Name: EC135 T2/P2 Cable Cutters System

Start Date: 6/15/2016

Required Date: 7/4/2016

Start Qty: 1.00

Required Qty: 1.00

MS27039-1-17

Purchased

No

Each

198.0000

2

MS27039-1-17

Screw (601.1954)

DAS 6 28
9-89 9-89

DAS
27
9-89

Location

Loc Qty

Loc Code

GA

185

120142

36

m127831

149

ST280

13

m127305

13

MS24694-S54

Purchased

No

Each

71.0000

5

MS24694-S54

SCREW

DAS 6 28
9-89 9-89

DAS
27
9-89

Location

Loc Qty

Loc Code

ST284

71

m134654

21

m134738

50

601.2999

Manufactured

No

Each

72.0000

3

601 2999

Screw

DAS 6 28
9-89 9-89

DAS
27
9-89

Location

Loc Qty

Loc Code

CCK098

72

91707

22

93369

50

MAY 27 2016

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐																																																													
Date :		Step #:		QTY Effective :				MRB (QSI042) Approval																																																									
Description Work Order Deviation				Disposition				Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval																																																									
Root Cause		FAULT CATEGORY																																																															
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐	Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐	Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐	Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐	Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐	Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐	Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐	Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐	LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐	Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐	Past Expiry Date ☐	Manufacturing Process ☐	OTHER :			
Misidentified ☐	Past Due ☐																																																																

Picklist Print

Page 20

Friday, May 20, 2016 3:37:31 PM

Work Order ID: 146731

146731

Parent Item: 647.7304

647 7304

Parent Item Name: EC135 T2/P2 Cable Cutters System

Start Date: 6/15/2016

Required Date: 7/4/2016

Start Qty: 1.00

Required Qty: 1.00

CCR264SS-3-03

Purchased

No

Each

279.0000

24

DAS
6

DAS
28

CCR264SS-3-03

Rivet

9-89

DAS
27
9-89

Location

Loc Qty

Loc Code

LG001

159

m128606

29

m134023

130

ST321

120

m134396

120

Each

129.0000

4

CCR274SS-3-03

Purchased

No

CCR274SS-3-03

Rivet

DAS
6

DAS
28
9-89

DAS
27
9-89

Location

Loc Qty

Loc Code

ST321

129

~~123785~~

122

m130388

7

Each

218.0000

4

CR3213-4-2

Purchased

No

CR3213-4-2

Cherry Rivet

DAS
28

DAS
6
9-89

DAS
27
9-89

Location

Loc Qty

Loc Code

CCK003

192

123301

192

ST319

26

m131340

26

MAY 25 2016

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :				MRB (QS1042) Approval	
Description Work Order Deviation				Disposition				Completed By	
								Lead hand / Supervisor Approval Verification	
Root Cause		FAULT CATEGORY							
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐				
Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐				
Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐				
Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐				
Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐				
Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐				
Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐				
Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐				
LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐				
Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐				
Past Expiry Date ☐	Manufacturing Process ☐	OTHER :							
Misidentified ☐	Past Due ☐								

Picklist Print

Friday, May 20, 2016 3:37:31 PM

Work Order ID: 146731

146731

Parent Item: 647.7304

647 7304

Parent Item Name: EC135 T2/P2 Cable Cutters System

Start Date: 6/15/2016

Required Date: 7/4/2016

Start Qty: 1.00

Required Qty: 1.00

CR3213-4-3 Purchased No

Each 312.0000 24

CR3213-4-3

Rivet, Cherry

DAS
6
28
9-89

DAS
27
9-89

Location	Loc Qty	Loc Code
CCK003	200	
123301	0	
m131340	200	
CCK004	40	
m130388	40	
ST319	72	
m129541	72	

24
16

CR3213-4-4 Purchased No

Each 201.0000

CR3213-4-4

Rivet, Cherry

DAS
6
28
9-89

DAS
27
9-89

Location	Loc Qty	Loc Code
CCK003	100	
M134654	100	
ST319	101	
M130388	35	
M134376	66	

16
8

CR3213-4-5 Purchased No

Each 225.0000

CR3213-4-5

Rivet

DAS
6
28
9-89

DAS
27
9-89

Location	Loc Qty	Loc Code
CCK003	100	
M129913	100	
ST319	125	
M129913	125	

134497

MAY 25 2016

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date : _____	Step #: _____	QTY Effective : _____		MRB (QS1042) Approval	
Description Work Order Deviation		Disposition		Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval	
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐			
		OTHER : _____			

Picklist Print

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Work Order ID: 146731

146731

Parent Item: 647.7304

647 7304

Parent Item Name: EC135 T2/P2 Cable Cutters System

Start Date: 6/15/2016

Required Date: 7/4/2016

Start Qty: 1.00

Required Qty: 1.00

CR3213-4-6 Purchased No

Each 300.0000 17

CR3213-4-6

Rivet

DAS
27
9-89

Location

Loc Qty

Loc Code

ST319

300

M131800

300

17

**

DAS
6
9-89
DAS
28
9-89

CR3213-5-3 Purchased No

Each 212.0000 16

CR3213-5-3

Cherry Rivet

DAS
27
9-89

Location

Loc Qty

Loc Code

CCK06

200

m134142

200

16

**

DAS
6
9-89
DAS
28
9-89

ST319

12

m132763

12

12

**

CR3213-5-4 Purchased No

Each 306.0000 12

CR3213-5-4

Cherry Rivet

DAS
27
9-89

Location

Loc Qty

Loc Code

CCK004

236

m128179

100

m128199

100

m130388

36

12

ST319

58

123785

58

WA003

12

117543

12

DAS
6
9-89
DAS
28
9-89

MAY 25 2016

DQA: _____ Date: _____

WORK ORDER NON-CONFORMANCE / UPDATE



QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :				MRB (QS1042) Approval	
Description Work Order Deviation				Disposition				Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval	
Root Cause		FAULT CATEGORY							
Environment ☐		No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐			
Design ☐		Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐			
Doc/Data ☐		Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐			
Equip/Tooling ☐		Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐			
Handling/Pre ☐		Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐			
Material ☐		Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐			
Internal Transport ☐		Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐			
Tribal Knowledge ☐		Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐			
LOA ☐		Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐			
Substation ☐		Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐			
Past Expiry Date ☐		Manufacturing Process ☐	OTHER :						
Misidentified ☐		Past Due ☐							

Picklist Print

Friday, May 20, 2016 3:37:31 PM

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Work Order ID: 146731

146731

Parent Item: 647.7304

647 7304

Parent Item Name: EC135 T2/P2 Cable Cutters System

Start Date: 6/15/2016

Required Date: 7/4/2016

Start Qty: 1.00

Required Qty: 1.00

CR3522-4-3 Purchased No

Each 124.0000 8

CR3522-4-3

Rivet
DAS
27
9-89

DAS
6 28
9-89

Location

Loc Qty

Loc Code

ST318

124

124876

100

m130388

24

CR3212-5-6 Purchased No

Each 95.0000 2

CR3212-5-6

Cherry Rivet

DAS
6 28
9-89

Location

Loc Qty

Loc Code

CCK005

91

124259

91

ST320

4

m130388

4

NAS1149FN832P Purchased No

Each 2,045.000 25

NAS1149FN832P

Washer

133284212

DAS
6 28
9-89

Location

Loc Qty

Loc Code

GA

475

M133316

16

M133769

459

ST260a

1200

M134257

1200

ST264

370

M133709

370

DAS
27
9-89

MAY 25 2016

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QS1042) Approval Completed By _____ Lead hand / Supervisor Approval Verification _____ QC / QA Coordinator Approval _____		
Description Work Order Deviation				Disposition					
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Rast Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Misabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐		OTHER : _____					

Picklist Print

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Friday, May 20, 2016 3:37:31 PM

Work Order ID: 146731

146731

Parent Item: 647.7304

647 7304

Parent Item Name: EC135 T2/P2 Cable Cutters System

Start Date: 6/15/2016

Required Date: 7/4/2016

Start Qty: 1.00

Required Qty: 1.00

NAS1149F0332P

Purchased

No

Each

2,960.000

85

DAS

6

9-89 DAS

28

9-89

NAS1149F0332P

Washer

**

133 134 x 12

DAS
27
9-89

Location

Loc Qty

Loc Code

GA

312

m133709

312

ST262

2648

m134257

648

m134676

2000

73

NAS1149C0432R

Purchased

No

Each

1,641.000

12

**

133 231 x 12

NAS1149C0432R

WASHER

DAS

6

9-89 DAS

28

9-89

Location

Loc Qty

Loc Code

GA

1320

m125807

427

m134676

893

ST266

321

m134073

321

12

DAS
27
9-89

NAS1149F0532P

Purchased

No

Each

2,450.000

4

**

NAS1149F0532P

Washer

Location

Loc Qty

Loc Code

ST260a

600

m133725

600

ST262

1850

18057

1840

m130388

10

4

DAS
27
9-89

DAS

6

9-89 DAS

28

9-89

MAY 25 2016

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date : _____	Step #: _____	QTY Effective : _____		MRB (QS1042) Approval	
Description Work Order Deviation		Disposition		Completed By	
				Lead hand / Supervisor Approval Verification	
				QC / QA Coordinator Approval	
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐			
OTHER : _____					

Picklist Print

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Friday, May 20, 2016 3:37:32 PM

Work Order ID: 146731

146731

Parent Item: 647.7304

647 7304

Parent Item Name: EC135 T2/P2 Cable Cutters System

Start Date: 6/15/2016

Required Date: 7/4/2016

Start Qty: 1.00

Required Qty: 1.00

601.2375 Manufactured No

Each 74.0000 3

601 2375

Washer

DAS
27
9-89

Location

Loc Qty

Loc Code

CCK096

74

91708

74

Each 24.0000

3
1

DAS
6
28
9-89

600.1012 Purchased No

600 1012

Sealant PR1425B2 (#654 sem)

Location

Loc Qty

Loc Code

cck017

23

m134167

5

m134249

8

m134634

10

cck018

1

m131364

1

10/30/2015

Each 15.0000

1

DAS
28
9-89

601.2045 Purchased No

601 2045

RTV (LOCTITE 598)McMaster p/n: 6641A41

Location

Loc Qty

Loc Code

CCK096

7

m133588

7

GA

8

m134260

8

DAS
27
9-89

DAS
28
9-89

MAY 17 2016

Friday, May 20, 2016 3:37:32 PM

Shop Packet Print

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DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐																																																													
Date :		Step #:		QTY Effective :			MRB (QS1042) Approval																																																										
Description Work Order Deviation				Disposition				Completed By																																																									
								Lead hand / Supervisor Approval Verification																																																									
								QC / QA Coordinator Approval																																																									
Root Cause		FAULT CATEGORY																																																															
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐	Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐	Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐	Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐	Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐	Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐	Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐	Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐	LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐	Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐	Past Expiry Date ☐	Manufacturing Process ☐	OTHER : _____			
Misidentified ☐	Past Due ☐																																																																

Picklist Print

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Friday, May 20, 2016 3:37:32 PM

Work Order ID: 146731

146731

Parent Item: 647.7304

647 7304

Parent Item Name: EC135 T2/P2 Cable Cutters System

Start Date: 6/15/2016

Required Date: 7/4/2016

Start Qty: 1.00

Required Qty: 1.00

600.0991 Purchased No

Each 25.0000 1

600 0991

MAGNOBOND 6398 PART B

DAS
6
28
9-89

DAS
27
9-89

SEP 10/2016

Location	Loc Qty	Loc Code
CA002	12	
m134167	12	
CA2	12	
m134249	12	
PKG	1	
m133800	1	

600.0990 Purchased No

Each 25.0000 1

600 0990

Magnabond 6398 Part A

DAS
28
9-89

DAS
27
9-89

SEP 10/2016

Location	Loc Qty	Loc Code
CA002	12	
M134167	12	
CA2	12	
M134249	12	
PKG	1	
M133800	1	

647.7919 Manufactured No

Each 5.0000 1

647 7919

Shim

DAS
28
9-89

DAS
27
9-89

Location	Loc Qty	Loc Code
cck116	5	
93337	3	
M130388	2	

647.7823 Manufactured No

Each 0.0000 1

647 7823

Cross Bracket Aft

MAY 17 2016
DAS
28
9-89

DAS
27
9-89

146665

SP

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Shop Packet Print

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DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐																																																													
Date :		Step #:		QTY Effective :				MRB (QS1042) Approval																																																									
Description Work Order Deviation				Disposition				Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval																																																									
Root Cause		FAULT CATEGORY																																																															
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐	Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐	Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐	Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐	Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐	Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐	Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐	Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐	LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐	Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐	Past Expiry Date ☐	Manufacturing Process ☐	OTHER : _____			
Misidentified ☐	Past Due ☐																																																																

Picklist Print

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Work Order ID: 146731

146731

Parent Item: 647.7304

647 7304

Parent Item Name: EC135 T2/P2 Cable Cutters System

Start Date: 6/15/2016

Required Date: 7/4/2016

Start Qty: 1.00

Required Qty: 1.00

647.2114 Manufactured No

Each 0.0000

647 2114

Upper U Channel

647.1404

Manufactured No

Each 0.0000

647 1404

Upper Cutter Assembly

MS27039-08-27

Purchased No

Each 50.0000

MS27039-08-27

Screw

DAS
27
9-89

Location

Loc Qty

Loc Code

ST277

50

m134702

50

MS21042L08

Purchased No

Each 1,028.000

MS21042L 08

Nut

Location

Loc Qty

Loc Code

GA

319

m133134

3

m134063

316

ST303

537

m133922

37

m134574

200

m134654

300

ST308

172

m134376

172

** 11" n 1 2016 147224 SP DAS 28 9-89

** B146601 DAS 28 9-89

** DAS 6 9-89 DAS 28 9-89

** 132930X1 DAS 6 9-89

MAY 25 2016 DAS 28 9-89

DAS
27
9-89

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date : _____	Step #: _____	QTY Effective : _____		MRB (QSI042) Approval	
Description Work Order Deviation		Disposition			
				Completed By	
				Lead hand / Supervisor Approval Verification	
				QC / QA Coordinator Approval	
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing, ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐			
OTHER : _____					

Picklist Print

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Work Order ID: 146731

146731

Parent Item: 647.7304

647 7304

Parent Item Name: EC135 T2/P2 Cable Cutters System

Start Date: 6/15/2016

Required Date: 7/4/2016

Start Qty: 1.00

Required Qty: 1.00

CR3523-4-3 Purchased No

Each 136.0000 4

CR3523-4-3

Rivet

DAS

6

DAS

28

9-89

DAS
27
9-89

Location

Loc Qty

Loc Code

CCK004

91

m129764

91

ST318

45

124876

45

CR3523-4-4 Purchased No

Each 242.0000 24

CR3523-4-4

Rivet

DAS

DAS

28

6

9-89

9-89

DAS
27
9-89

Location

Loc Qty

Loc Code

CCK004

100

m127255

100

ST318

142

119717

10

124259

84

m130388

48

CR3523-5-3 Purchased No

Each 0.0000 8

CR3523-5-3

Rivet

DAS

28

9-89

647.1702

Manufactured No

Each 3.0000 2

647 1702

Skid Deflector Assembly

DAS

28

9-89

DAS
27
9-89

Location

Loc Qty

Loc Code

CCK033

3

141003

3

DQA: _____ Date: _____

WORK ORDER NON-CONFORMANCE / UPDATE



QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QS1042) Approval 		
Description Work Order Deviation				Disposition					
							Completed By		
							Lead hand / Supervisor Approval Verification		
							QC / QA Coordinator Approval		

Root Cause				FAULT CATEGORY			
Environment ☐	Design ☐	Doc/Data ☐	Equip/Tooling ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐
Handling/Pre ☐	Material ☐	Internal Transport ☐	Tribal Knowledge ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐
LOA ☐	Substation ☐	Past Expiry Date ☐	Misidentified ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐
				Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐
				Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐
				Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐
				Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐
				Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐
				Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐
				Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐
				OTHER : ☐			

Picklist Print

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Work Order ID: 146731

146731

Parent Item: 647.7304

647 7304

Parent Item Name: EC135 T2/P2 Cable Cutters System

Start Date: 6/15/2016

Required Date: 7/4/2016

Start Qty: 1.00

Required Qty: 1.00

LN9025-0820K

Purchased

No

Each

48.0000

8

I N9025-0820K

Lock Tab Washer

**

DAS
6
9-89
DAS
28
9-89

DAS
27
9-89

Location

Loc Qty

Loc Code

ST563

48

M128007

48

LN9037-08018

Purchased

No

Each

3.0000

8

I N9037-08018

Screw

**

DAS
6
9-89
DAS
28
9-89

DAS
27
9-89

Location

Loc Qty

Loc Code

ST563

3

M132173

3

93635A212

Purchased

No

Each

50.0000

4

93635A212

Bolt

**

DAS
6
9-89
DAS
28
9-89

DAS
27
9-89

Location

Loc Qty

Loc Code

ST558

50

m134700

50

MS27039-1-18

Purchased

No

Each

1,809.000

2

MS27039-1-18

Screw

**

DAS
6
9-89
DAS
28
9-89

DAS
27
9-89

Location

Loc Qty

Loc Code

GA

251

123522

55

124326

196

over006

1373

124326

1373

ST280

185

124326

185

MAY 25 2016

DQA: _____ Date: _____

**WORK ORDER NON-CONFORMANCE / UPDATE**

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐				
Date : _____	Step #: _____	QTY Effective : _____			MRB (QSI042) Approval	
Description Work Order Deviation		Disposition			Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval	
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐				
		OTHER : ☐				

Picklist Print

Page 30

Friday, May 20, 2016 3:37:32 PM

Work Order ID: 146731

146731

Parent Item: 647.7304

647 7304

Parent Item Name: EC135 T2/P2 Cable Cutters System

Start Date: 6/15/2016

Required Date: 7/4/2016

Start Qty: 1.00

Required Qty: 1.00

601.3902

Manufactured No

Each

4.0000

2

DAS
6
9-89

601 3902

Eye Bolt

Location

Loc Qty

Loc Code

cck101

4

142359

4

DAS
27
9-89

2

MAY 25 2016

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date : _____	Step #: _____	QTY Effective : _____		MRB (QS1042) Approval	
Description Work Order Deviation		Disposition		Completed By	
				Lead hand / Supervisor Approval Verification	
				QC / QA Coordinator Approval	
Root Cause		FAULT CATEGORY			
Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐	Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐	Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐			
OTHER : ☐					

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF APICAL INDUSTRIES DBA DART AEROSPACE. ANY REPRODUCTION IN PART OR WHOLE WITHOUT THE WRITTEN PERMISSION OF APICAL INDUSTRIES DBA DART AEROSPACE IS PROHIBITED.

NOTES: UNLESS OTHERWISE SPECIFIED

- 1 AFTER INSTALLATION, APPLY F/N 90 A/R TO FILL GAPS AND FILLET EDGES.
- 2 APPLY F/N 91 TO FAYING SURFACES.
- 3 DELETED.
- 4 MATCH DRILL HOLES THROUGH F/N 26 or F/N 98 AND FUSelage.
- 5 SHIM GAP BETWEEN F/N 1 & 26 AS NEEDED.
- 6 AT CUSTOMERS OPTION, INSTALL F/N 96 BY MATCH DRILLING ONTO F/N 1 FOR KIT F/N 647.7301 or F/N 99 FOR KIT F/N 647.7304.
- 7 647.7301 INSTALLATION FOR EC135.
- 8 647.7304 INSTALLATION FOR EC135 T2/P2.
- 9 EXCEPT WHERE NOTED, INSTALLATION FOR 647.7304 SAME AS 647.7301.

				8		8	95	601.1097	WASHER		NA51149FO463P	
	1	1			1	1	94	647.7919	SHIM			
	1	1			1	1	93	600.0990	MAGNOBOND 6398 PART A			
	1	1			1	1	92	600.0991	MAGNOBOND 6398 PART B			
	1		1	1			91	601.2045	RTV	LOCTITE 596		
	1	1	1		1	1	90	600.1012	SEALANT	PR 1425 CLAS5 B		
	3	3			3	3	89	601.2375	WASHER			
2	3	4	2	3	4	88	601.3126	WASHER		NA51149FO532P		
12		12	8			8	87	601.3663	WASHER	NA51147PC0432R		
8	77	85	12	74	86	86	601.1607	WASHER		NA51149FO332P		
23	2	25	12	2	14	85	601.2764	WASHER		NA51149H832P		
	2	2		2	2	84	601.3136	CHERRY RIVET	CR3212-6			
	8	8		8	8	83	601.3215	CHERRY RIVET	CR3522-5-3			
	8	8		8	8	82	601.3216	CHERRY RIVET	CR3522-4-3			
	12	12		12	12	81	601.2481	CHERRY RIVET	CR3213-5-4			
	16	16		16	16	80	601.2020	CHERRY RIVET	CR3213-5-3			
	17	17		17	17	79	601.2991	CHERRY RIVET	CR3213-4-6			
	8	8		8	8	78	601.1183	CHERRY RIVET	CR3213-4-5			
	16	16		16	16	77	601.1915	CHERRY RIVET	CR3213-4-4			
	24	24		24	24	76	601.0790	CHERRY RIVET	CR3213-4-3			
	4	4		4	4	75	601.1604	CHERRY RIVET	CR3213-4-2			
	4	4		4	4	74	601.1983	NUTPLATE RIVET	CCR27453-3-03			
	24	24		24	24	73	601.2207	NUTPLATE RIVET	CCR26453-3-03			
	3	3		3	3	72	601.2999	SCREW				
	5	5		6	6	71	601.2829	SCREW	MS24694554			
	2	2		2	2	70	601.1954	SCREW	MS27039-1-17			
	4	4		4	4	69	601.2637	SCREW	MS27039-1-16			
	1	1		1	1	68	601.3012	SCREW	MS27039-1-15			
	4	4		4	4	67	601.1622	SCREW	MS27039-1-14			
	2	2		2	2	66	601.1953	SCREW	MS27039-1-12			
	6	6		6	6	65	601.1365	SCREW	MS27039-1-10			
	12	12		12	12	64	601.3069	SCREW	MS27039-1-09			
	3	3		3	3	63	601.2198	SCREW	MS27039-1-07			
			2		2	62	601.3137	SCREW	MS27039-0814			
4		4	4		4	61	601.2988	SCREW	MS27039-0813			
	1	1		1	1	60	601.2525	SCREW	MS27039-0807			
	4	4		4	4	59	601.3127	LOCKNUT	MS21042L5			
	2	2		2	2	58	647.8512	INSERT				
	4	4		4	4	57	647.8511	INSERT				
	20	20		18	18	56	647.8510	INSERT				
4		4	4		4	55	601.3128	NUT	AN316C4R			
4			4	8		8	54	601.3209	LOCKNUT	MS21042L4		
4	31	35	4	30	34	53	601.2943	LOCKNUT	MS21042-3			
4	1	5	6	1	7	52	601.2973	LOCKNUT	MS21042-08			
				4	4	51	601.3002	BOLT	NA56504-66			
				4	4	50	601.3130	BOLT	NA56603-16			
				4	4	49	601.1500	BOLT	NA56603-12			
4		4	4		4	48	601.2669	BOLT	ANAC7A			
	1	1		1	1	47	601.1324	BOLT	ANAC16A			
4		4	4		4	46	601.2826	BOLT	ANS-11A			
	2	2		2	2	45	601.2823	BOLT	ANS-4A			
	12	12		12	12	44	600.0795	NUTPLATE	MS21047-3			
	2	2		2	2	43	601.3004	CAMLOC STUD				
	2	2		2	2	42	601.3005	CAMLOC RETAINER				
	2	2		2	2	41	601.3006	CAMLOC RECEPTACLE				
4		4	4		4	40	601.3119	CLEVIS	AN665-34R			
7306	7305	7304	7303	7302	7301	7300	PART #	DESCRIPTION	MATL	SPEC		

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVE
	LA51 PROTOTYPE REVISION: PR4		N/C
N/C	INITIAL RELEASE	01/13/09	P. BRAVO
A	INCORPORATED ECHS 021936 03000, 03044, 03066	02/16/11	P. BRAVO
B	INCORPORATED ECHS 053335	03/07/16	P. BRAVO

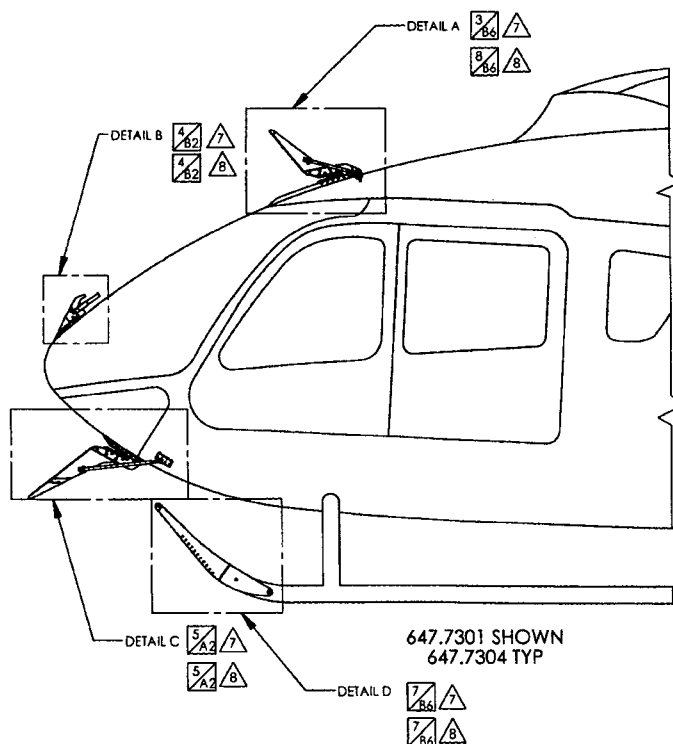
2		2		2	39	601.3120	EYE BOLT	AN44-12A	
		2		2	38	601.3121	EYE BOLT	AN44-5A	
1	1	1	1	1	37	601.3007	GROMMET	MS21266-2N	
1	1	1	1	1	36	601.3011	P-SEAL		
	1	1		1	35	647.3201	GROUNDING CABLE ASSY		
			2	2	4	34	647.2511	NUT	
				4	4	33	647.2510	SLEEVE	
	13	13		13	13	32	647.1812	SHIM	
	2	2		2	2	31	647.1811	SPACER	
	1	1		1	1	30	647.1602	DOUBLER ASSY	
	1	1		1	1	29	647.1914	BACKET	
	1	1		1	1	28	647.7822	EYE BOLT FITTING RH	
	1	1		1	1	27	647.7821	EYE BOLT FITTING LH	
				1	1	26	647.7818	MOUNTING CHANNEL	
				1	1	25	647.7820	CROSS BRACKET AFT	
	1	1		1	1	24	647.7819	CROSS BRACKET FWD	
	1	1		1	1	23	647.7918	BRACKET	
	1	1		1	1	22	647.7917	BRACKET	
	2	2		2	2	21	647.7916	BRACKET	
	1	1		1	1	20	647.7915	BRACKET	
	1	1		1	1	19	647.7914	BRACKET	
	2	2		2	2	18	647.7913	DOUBLER	
	4	4		4	4	17	647.7912	CLIP	
	2	2		2	2	16	647.7911	BRACKET	
	2	2		2	2	15	647.7910	ANGLE BACKET	
4		4	4		4	14	647.0112	STRUT BRACKET	
	1	1		1	1	13	647.1810	NOSE DOOR DOUBLER	
	1	1		1	1	12	647.1818	NOSE DOOR SPACER	
2		2	2		2	11	647.7701	STRUT ASSY	
2		2	2		2	10	647.7702	STRUT ASSY	
	1	1		1	1	9	647.1815	GUSSET, RH	
	1	1		1	1	8	647.1814	GUSSET, LH	
	1	1		1	1	7	647.1915	SUPPORT ANGLE	
	1	1		1	1	6	647.1913	TEE	
	1	1		1	1	5	647.1610	WIPER DEFLECTOR, FWD	
	1	1		1	1	4	647.1601	WIPER DEFLECTOR ASSY, AFT	
			2		2	3	647.1701	SKID DEFLECTOR ASSY	
1		1	1		1	2	647.7501	LOWER CUTTER ASSY	
			1		1		647.7401	UPPER CUTTER ASSY	
X							647.7306	T2/P2 REMOVABLE PROVISIONS KIT	
	X						647.7305	T2/P2 FIXED PROVISIONS KIT	
		X					647.7304	EC135 T2/P2 CABLE CUTTERS KIT	
			X				647.7303	REMOVABLE PROVISIONS KIT	
				X			647.7302	FIXED PROVISIONS KIT	
					X		647.7301	EC135 CABLE CUTTERS KIT	
7306	7305	7304	7303	7302	7301	FIND IT	PART #	DESCRIPTION	MAT'L SPEC

QTY	PARTS LIST	
NEXT ASSY IS	OPTIONAL DATE 1/17/97 DRAWN BY A. OLAN CHECKED D.BARKER DRAWING APPROVAL R. BRAY 5/13/16 CONTINUED ON	DART 3030 ENTERPRISE CT SUITE A VISTA, CA, 92081 (760)-724-5300 APICAL INDUSTRIES, INC. c/o DART AEROSPACE
EC135 CABO CUTTERS KIT		
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 2 PLACE DECIMALS .005 3 PLACE DECIMALS .001 ANGLES .5°	SIZE CASE CODE DWG NO. REV B 07/M2 647.330 1 SCALE NONE 1 SHEET OF 8	

W/O 146731

2m 16/05/24.

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2		2				110	601.3902	EYE BOLT		
	2	2				109	601.2910	SCREW	MS27009-1-18	
4		4				108	601.3963	BOLT	93635A-212	
8		8				107	601.3654	BOLT	UN9037-08018	
8		8				106	601.3655	LOCK WASHER	UN9025-0820K	
2		2				105	647.1702	SKID DEFLECTOR ASSY		
	8	8		8	8	104	601.3214	CHERRY RIVET	CR3325-5-3	
	24	24		24	24	103	601.3213	CHERRY RIVET	CR3325-4-4	
	4	4		4	4	102	601.3212	CHERRY RIVET	CR3325-4-3	
5		5				101	601.1541	LOCKNUT	MS21042-08	
5		5				100	601.3962	SCREW	MS27009-0837	
1		1				99	647.1404	CUTTER ASSY (UPPER)		
	1	1				98	647.2114	UPPER U CHANNEL		
	1	1				97	647.7823	CROSS BRACKET AFT		
1		1	1	1	1	96	647.5701	GPS MOUNT KIT		
7306	7305	7304	7303	7302	7301	FIND #	PART #	DESCRIPTION	MATL	SPEC

ORIGINAL DATE
11/24/09
DRAWN BY
A. QUAN
CHECKED
D. BAKER
DRAWING APPROVAL
P. BRAY
01/13/10
CONTRACT NO.

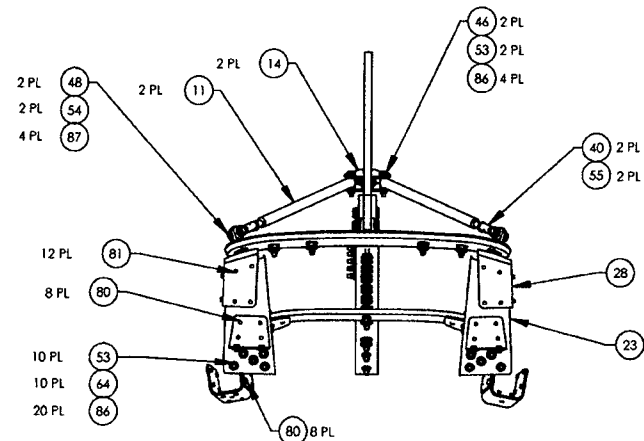
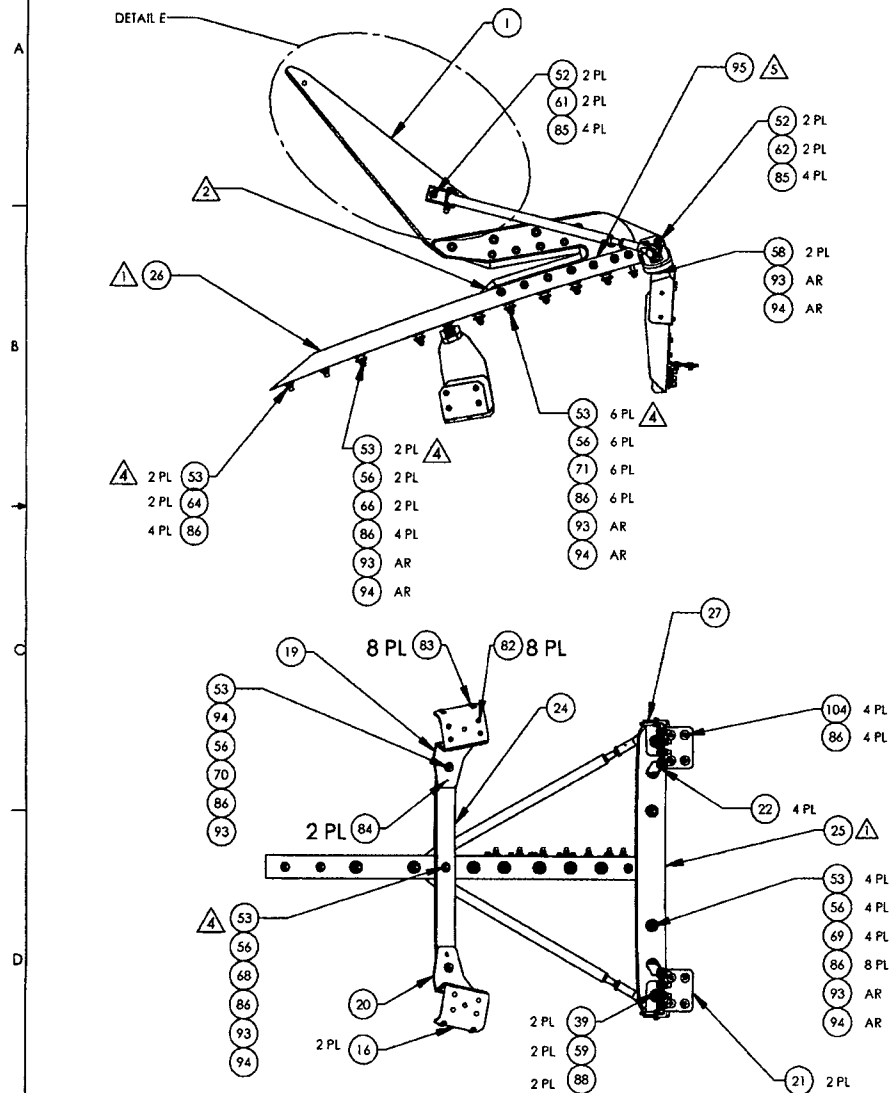
UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ARE:
2 PLACE DECIMALS ±.01
3 PLACE DECIMALS ±.005
ANGLES ±.3°

DART 3030 ENTERPRISE CT., SUITE A
VISTA, CA 92081
(760)-724-5300
APICAL INDUSTRIES INC.
DBA DART AEROSPACE

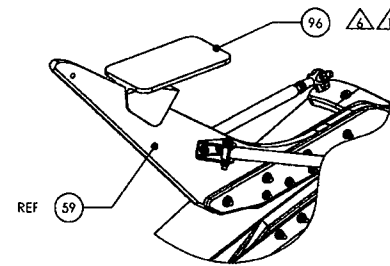
EC135 CABLE CUTTERS KIT

SEE CAGE CODE DWG. NO. REV.
B 07M26 647.7300 B
SCALE NONE SHEET 2 OF 8

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DETAIL A

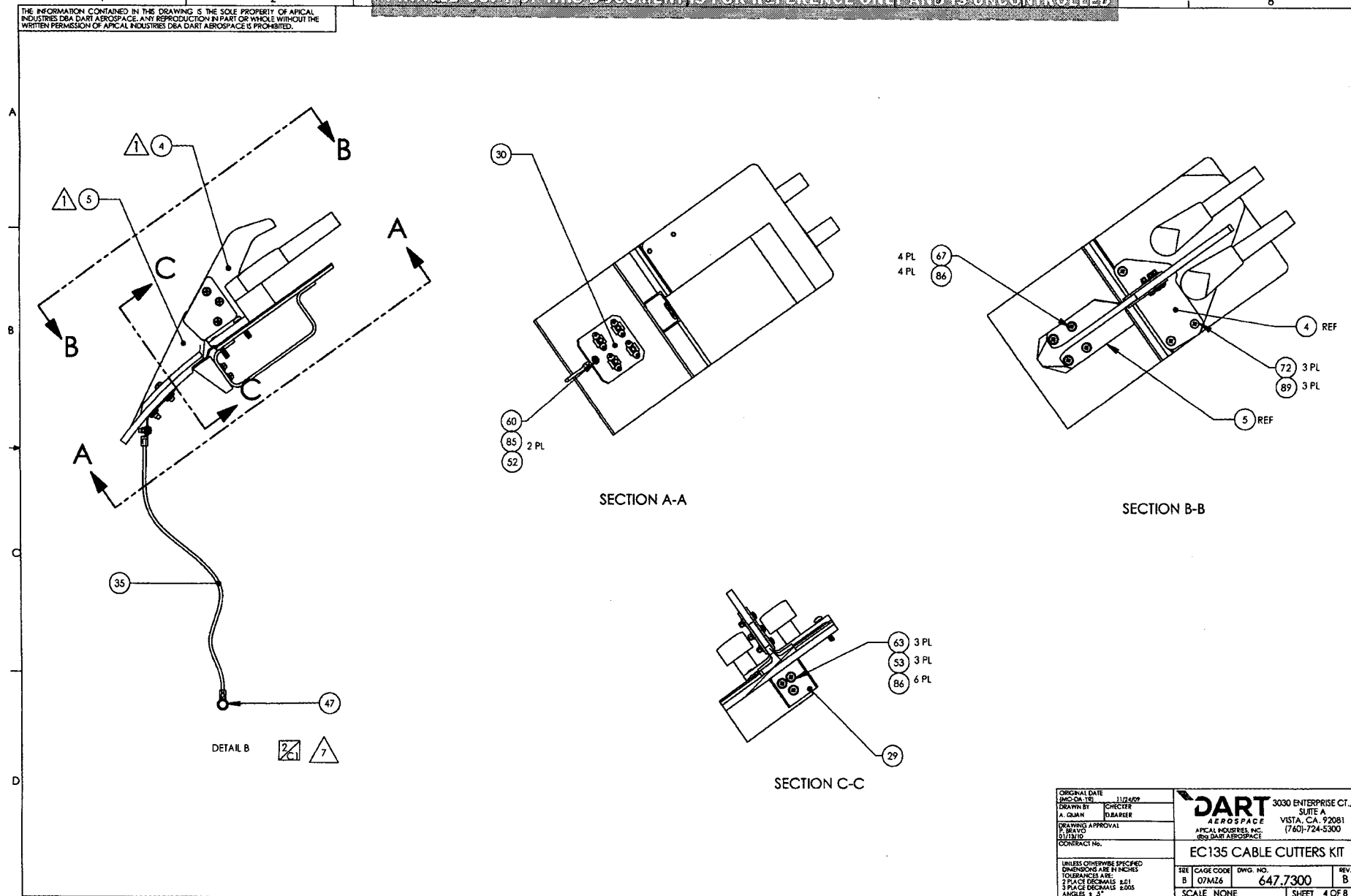


DETAIL E
TYPICAL GPS MOUNT KIT INSTALLATION

ORIGINAL DATE 11/04/00		3030 ENTERPRISE CT., SUITE A VISTA, CA 92081 (760)-724-5300	
DRAWN BY A. GUAN		DART AEROSPACE	
CHECKED D. BARRER		APICAL INDUSTRIES, INC. DBA DART AEROSPACE	
DRAWING APPROVAL		EC135 CABLE CUTTERS KIT	
QUANTITY		SCALE NONE	
CONTRACT NO.		1 SHEET 3 OF 8	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 2 PLACE DECIMALS ±.01 3 PLACE DECIMALS ±.005 ANGLES ±.5°			
REV	CAGE CODE	DWG. NO.	REV
8	07M36	647.7300	8

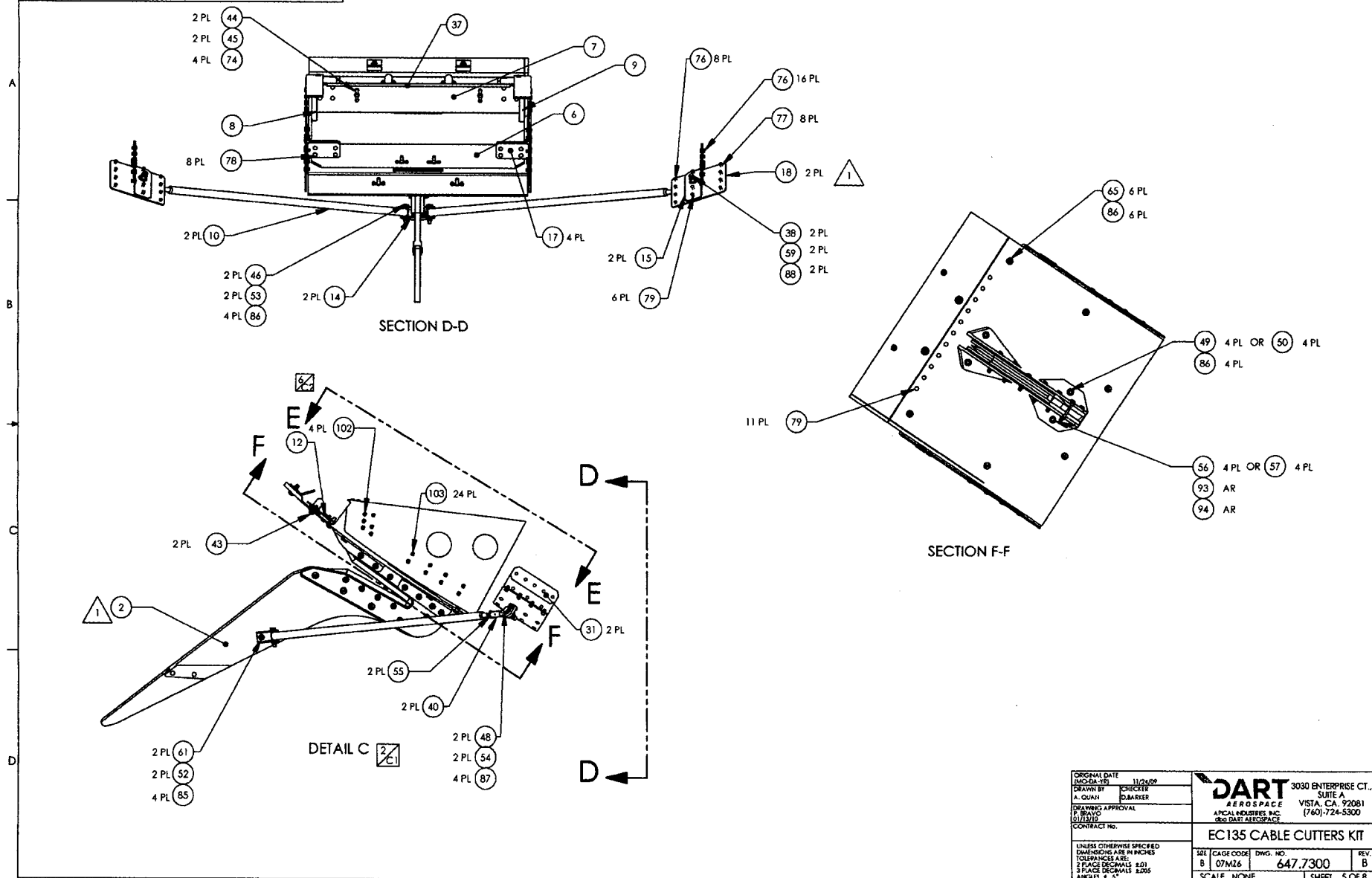
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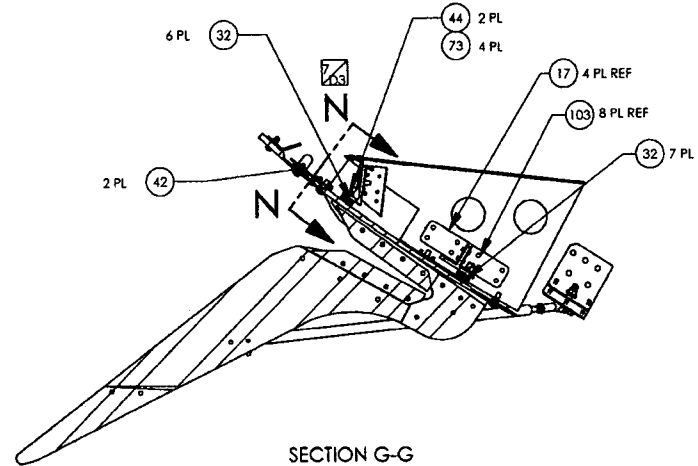
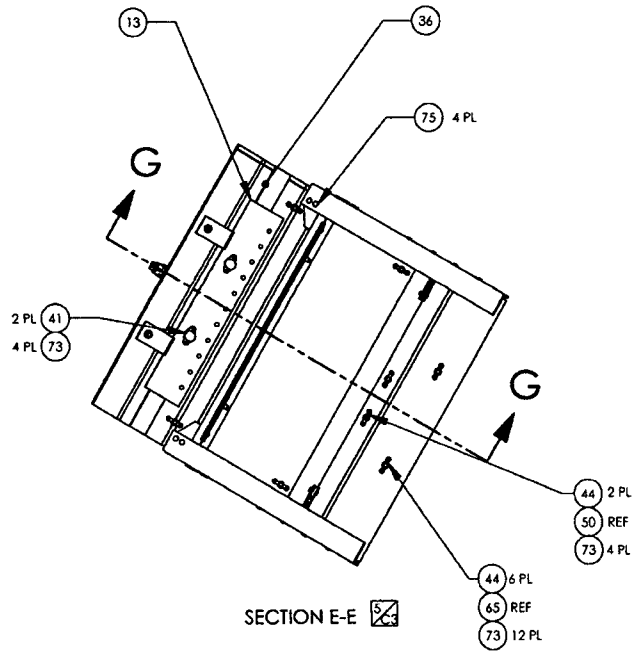


ORIGINAL DATE JUN 04 1993		11/24/09	
DRAWN BY A. QUINN		CHECKED D. BARBER	
DRAWING APPROVAL D. BARBER			
CONTRACT NO.		DART AEROSPACE APICAL INDUSTRIES INC. DBA DART AEROSPACE 3030 ENTERPRISE CT., SUITE A VISTA, CA. 92081 (760)-724-5300	
EC135 CABLE CUTTERS KIT			
REV	CAGE CODE	DWG. NO.	REV
B	07M26	647.7300	B
SCALE NONE		SHEET 4 OF 8	

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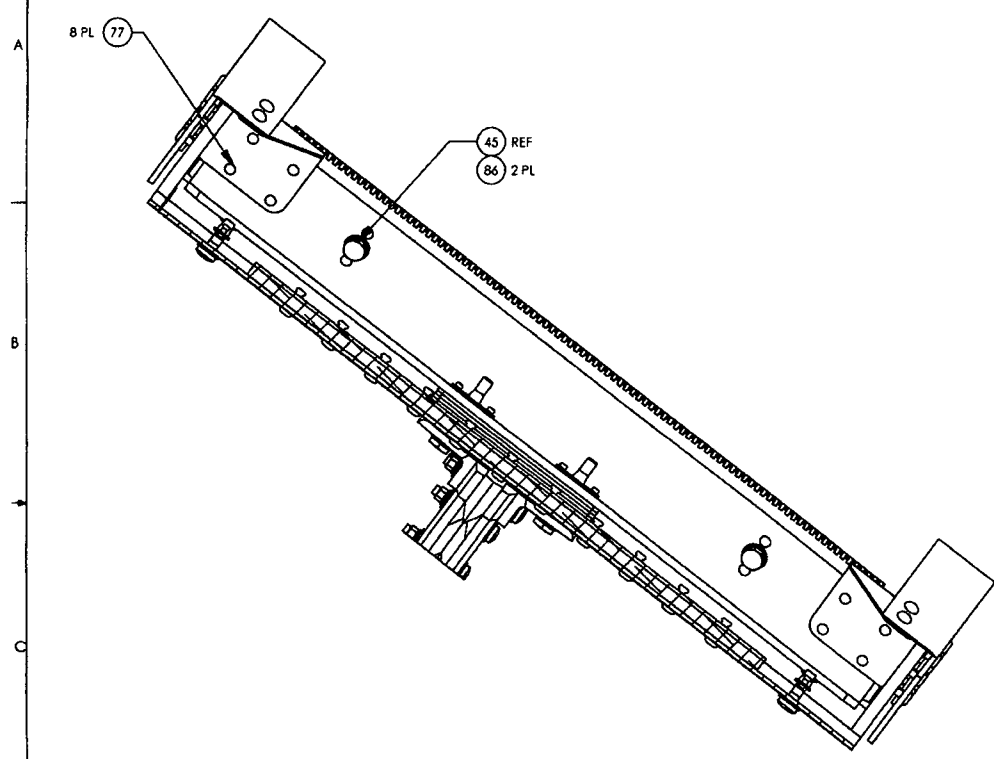
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ORIGINAL DATE 11/24/09		 3030 ENTERPRISE CT., SUITE A AEROSPACE VISTA, CA. 92081 APICAL INDUSTRIES INC. DBA DART AEROSPACE (760) 724-5300			
DRAWN BY A. QUAY					
CHECKED BY J. BARKER		EC135 CABLE CUTTERS KIT			
DRAWING APPROVAL P. REAVIS 01/12/10 CONTRACT No.					
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 2 PLACE DECIMALS ±.01 3 PLACE DECIMALS ±.005 ANGLES ±.2°		SHEET B	CAGE CODE 07M26	DWG. NO. 647.7300	REV. B
		SCALE NONE		SHEET 6 OF 8	

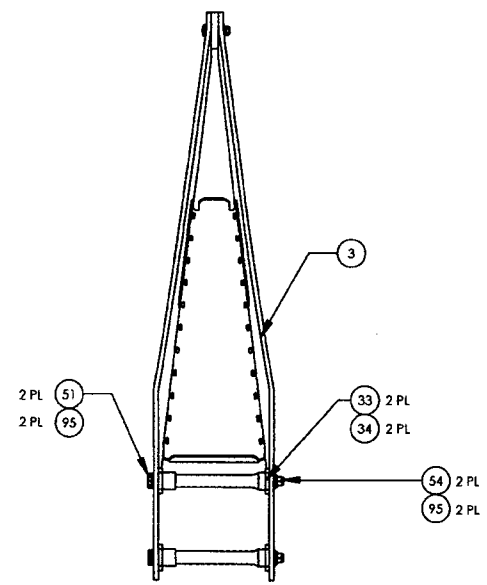
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SECTION N-N

INBOARD

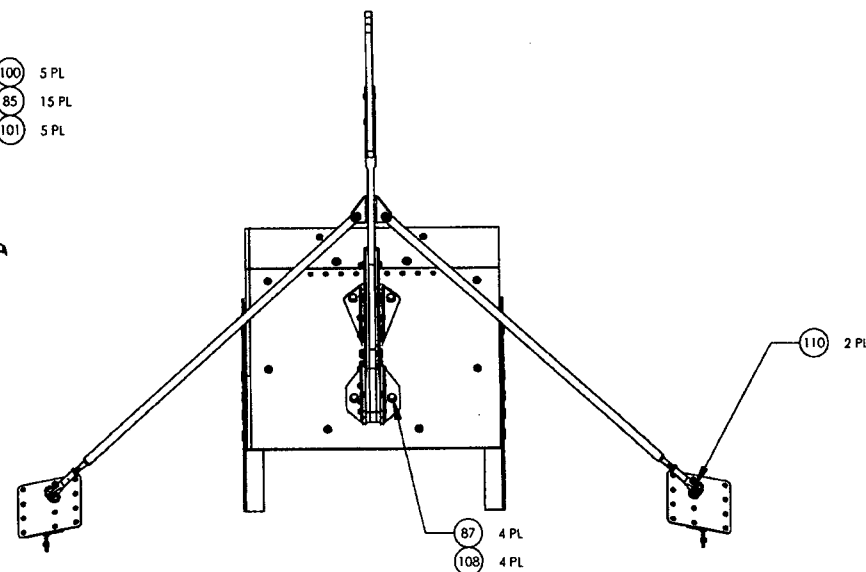
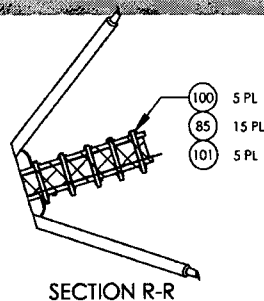
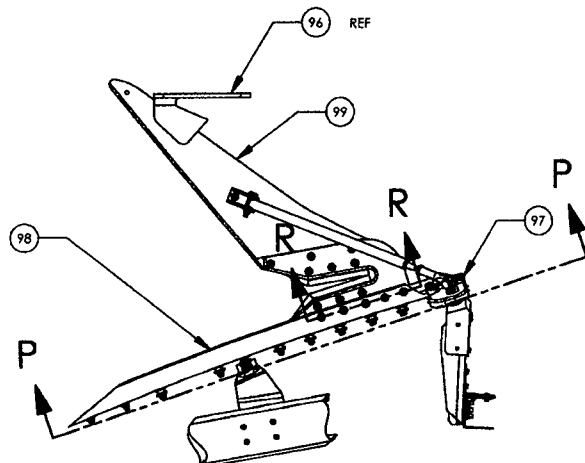


DETAIL D
TYP 2 PL

ORIGINAL DATE 11/24/99		 DART AEROSPACE 3030 ENTERPRISE CT., SUITE A VISTA, CA. 92081 (760)-724-5300 APICAL INDUSTRIES INC. DBA DART AEROSPACE	
DRAWN BY A. DIAH	CHECKED DIAHNER		
DRAWING APPROVAL P. BRAVO			
CONTRACT NO.			
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 2 PLACE DECIMALS ±.01 3 PLACE DECIMALS ±.005 ANGLES ±.5°			
EC 135 CABLE CUTTERS KIT		SIZE B	REV. B
		CAGE CODE 07M26	DWG. NO. 647.7300
		SCALE NONE	SHEET 7 OF 8

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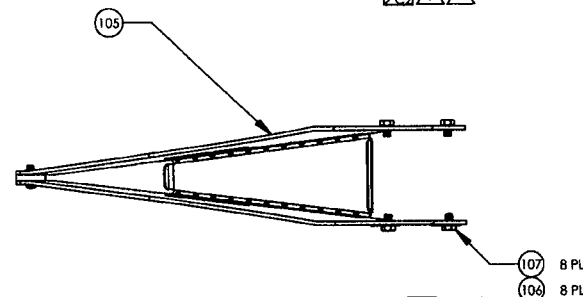
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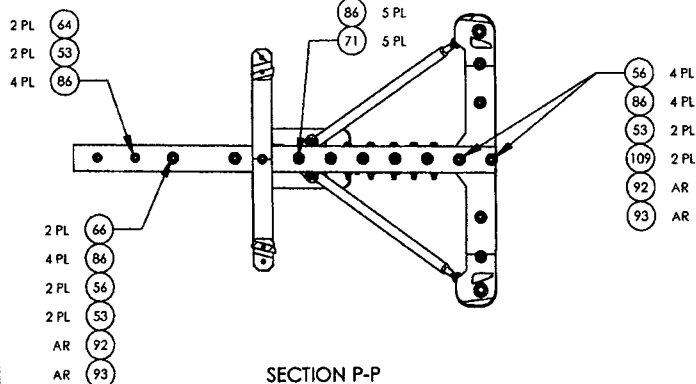
DETAIL A $\frac{2}{8}$ $\frac{8}{9}$

- 93 AR
- 92 AR
- 53 5 PL
- 56 5 PL
- 86 5 PL
- 71 5 PL

DETAIL C $\frac{2}{8}$ $\frac{8}{9}$



DETAIL D $\frac{2}{8}$ $\frac{8}{9}$



SECTION P-P

ORIGINAL DATE 11/24/99		DART 3030 ENTERPRISE CT., SUITE A VISTA, CA 92081 (760)-724-5300	
DRAWN BY A. QUAN		CHECKER D. BARKER	
DRAWING APPROVAL P. BRAVO 01/13/10		CONTRACT NO.	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 2 PLACE DECIMALS ±.01 3 PLACE DECIMALS ±.005 ANGLES ±.5°		EC135 CABLE CUTTERS KIT	
SHEET B	CAGE CODE 07M26	DWG. NO. 647.7300	REV. B
SCALE NONE		SHEET 8 OF 8	

Work Order ID 146731

146731

Friday, May 20, 2016 3:37:23 PM

Item ID: 647.7304

Accept

N9000040100

Setup Start *NS1*

Stop *NS2*

Revision ID:

Item Name: EC135 T2/P2 Cable Cutters System

Start Date: 6/15/2016 Start Qty: 1.00

1

Cust Item ID:

Required Date: 7/4/2016 Req'd Qty: 1.00

1

Customer:

Reference:

Run Start *NR1*

Approvals:

Process Plan: emDate: 16/05/24 Tooling:

Date:

Stop *NR2*

QC:

Date:

SPC (Y/N):

Date:

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
Draw Nbr	Revision Nbr								
647.7300	B								
100	Document Control	0.00							
100	DOCUMENT CONTROL	0.00							
DC	Memo	0.00							
Doc.Control -USB on Paperwork	Photocopy bluefile & type labels per PPP 647.7304								
110	Pick Kit	0.00							
110		0.00							
Packaging	Memo								
Packaging									
120	QC4- 100% Inspect kits for completeness	0.00							
120		0.00							
QC	Memo								
Quality Control									

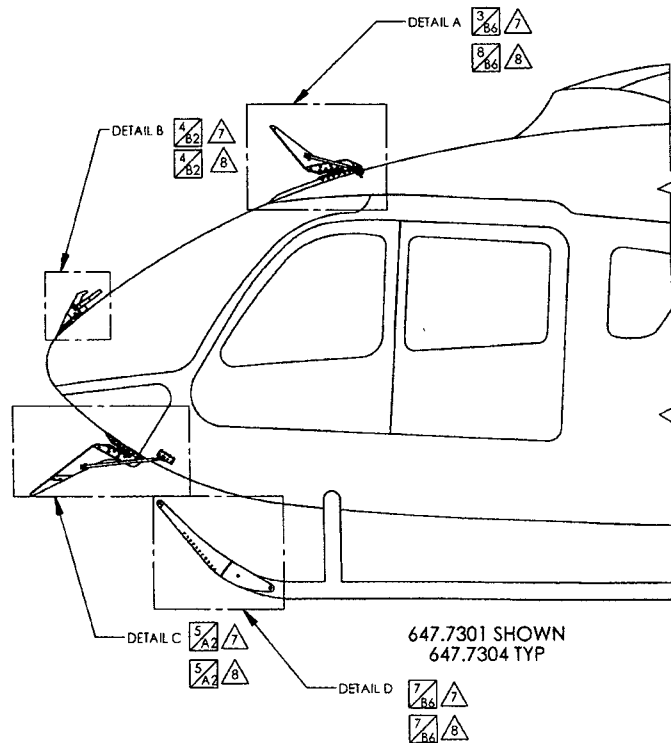
MAY 30 2016

MAY 27 2016

REFERENCE ONLY

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2		2*			110	601.3902	EYE BOLT		
	2	2			109	601.2910	SCREW	MS27039-1-16	
4	1	4			108	601.3963	BOLT	93635A-212	
8		8			107	601.3654	BOLT	LN9037-08C18	
8		8			106	601.3655	LOCK WASHER	LN9025-08Z0K	
2		2			105	647.1702	SKID DEFLECTOR ASSY		
	8	8		8	104	601.3214	CHERRY RIVET	CR3523-5-0	
	24	24		24	103	601.3213	CHERRY RIVET	CR3523-4-4	
	4	4		4	102	601.3212	CHERRY RIVET	CR3523-4-3	
5		5			101	601.1541	LOCKNUT	MS21042L06	
5		5			100	601.3962	SCREW	MS27037-08Z17	
1		1			99	647.1404	CUTTER ASSY (UPPER)		
1		1			98	647.2114	UPPER U CHANNEL		
1		1			97	647.7823	CROSS BRACKET AFT		
1		1			96	647.5701	GPS MOUNT KIT		
7306	7305	7304	7303	7302	7301	FINO	PART #	DESCRIPTION	MATL SPEC

ORIGINAL DATE
11/26/09
DRAWN BY
A. QUAN
CHECKED
D. BARRER
DRAWING APPROVAL
P. BARRER
01/13/10
CONTACT NO.

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ARE:
7 PLACE DECIMALS ±.001
3 PLACE DECIMALS ±.005
ANGLES ±.5°

DART 3030 ENTERPRISE CT., SUITE A
VISTA, CA, 92081
(760)-724-5300
APICAL INDUSTRIES, INC.
DBA DART AEROSPACE
EC135 CABLE CUTTERS KIT
SHEET CODE 0004 DWG. NO. 647.7300 REV. B
SCALE NONE SHEET 2 OF 8

REFERENCE ONLY

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NOTES: UNLESS OTHERWISE SPECIFIED

1 AFTER INSTALLATION, APPLY F/N 90 A/R TO FILL GAPS AND FILLET EDGES.

2 APPLY F/N 91 TO FAYING SURFACES.

3 DELETED.

4 MATCH DRILL HOLES THROUGH F/N 26 or F/N 98 AND FUSELAGE.

5 SHIM GAP BETWEEN F/N 1 & 26 AS NEEDED.

6 AT CUSTOMERS OPTION, INSTALL F/N 96 BY MATCH DRILLING ONTO F/N 1 FOR KIT P/N 647.7301 or F/N 99 FOR KIT P/N 647.7304.

7 647.7301 INSTALLATION FOR EC135.

8 647.7304 INSTALLATION FOR EC 135 T2/P2.

 EXCEPT WHERE NOTED, INSTALLATION FOR 647.7304 SAME AS 647.7301.

[illegible]

										REVISIONS			
										DESCRIPTION	DATE	APPROVED	
LAST PROTOTYPE REVISION: PR4												N/C	
N/C										INITIAL RELEASE	01/13/69	P. BRAVO	
A										INCORPORATED ECN'S 02736, 03000, 03044, 03066	02/16/11	P. BRAVO	
B										INCORPORATED ECN 05335	03/09/16	P. BRAVO	

2		2	2		2	39	601.3120	EYE BOLT		AN44-12A	
			2		2	38	601.3121	EYE BOLT		AN44-5A	
1	1	1	1	1	1	37	601.3007	GROMMET		MS21266-2N	
1	1	1	1	1	1	36	601.3011	P-SEAL			
	1	1		1	1	35	647.3201	GROUNDING CABLE ASSY			
			2	2	4	34	647.2511	NUT			
				4	4	33	647.2510	SLEEVE			
13	13		13	13	32	647.1812	SHIM				
2	2		2	2	31	647.1811	SPACER				
1	1		1	1	30	647.1602	DOUBLER ASSY				
1	1		1	1	29	647.1914	BRACKET				
1	1		1	1	28	647.7822	EYE BOLT FITTING RH				
1	1		1	1	27	647.7821	EYE BOLT FITTING LH				
				1	1	26	647.7818	MOUNTING CHANNEL			
				1	1	25	647.7820	CROSS BRACKET AFT			
1	1		1	1	24	647.7819	CROSS BRACKET FWD				
1	1		1	1	23	647.7918	BRACKET				
1	1		1	1	22	647.7917	BRACKET				
2	2		2	2	21	647.7916	BRACKET				
1	1		1	1	20	647.7915	BRACKET				
1	1		1	1	19	647.7914	BRACKET				
2	2		2	2	18	647.7913	DOUBLER				
4	4		4	4	17	647.7912	CLIP				
2	2		2	2	16	647.7911	BRACKET				
2	2		2	2	15	647.7910	ANGLE BRACKET				
4	4		4	4	14	647.0112	STRUT BRACKET				
1	1		1	1	13	647.1810	NOSE DOOR DOUBLER				
1	1		1	1	12	647.1818	NOSE DOOR SPACER				
2	2		2	2	11	647.7701	STRUT ASSY				
2	2		2	2	10	647.7702	STRUT ASSY				
1	1		1	1	9	647.1815	GUSSET, RH				
1	1		1	1	8	647.1814	GUSSET, LH				
1	1		1	1	7	647.1915	SUPPORT ANGLE				
1	1		1	1	6	647.1913	TEE				
1	1		1	1	5	647.1610	WIPER DEFLECTOR, FWD				
1	1		1	1	4	647.1601	WIPER DEFLECTOR ASSY, AFT				
			2	2	3	647.1701	SKID DEFLECTOR ASSY				
1	1		1	1	2	647.7501	LOWER CUTTER ASSY				
			1	1	1	647.7401	UPPER CUTTER ASSY				
X						647.7306	T2/P2 REMOVABLE PROVISIONS KIT				
	X					647.7305	T2/P2 FIXED PROVISIONS KIT				
		X				647.7304	EC135 T2/P2 CABLE CUTTERS KIT				
			X			647.7303	REMOVABLE PROVISIONS KIT				
				X		647.7302	FIXED PROVISIONS KIT				
					X	647.7301	EC135 CABLE CUTTERS KIT				
7306	7305	7304	7303	7302	7301	FIND #	PART #	DESCRIPTION		MAT'L	SPEC

QTY		PARTS LIST	
NEXT ASSY (S)			
DRAWN BY D. JAHN		CHECKED 11/24/09	
DRAWING APPROVAL P. BRAVO 01/13/69		CONTRACT NO.	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES 2 PLACE DECIMALS E.G. ANGLE ± .5			

DART		3030 ENTERPRISE CT., SUITE A VISTA, CA. 92081 (760)-724-5300	
AEROSPACE			
APCAL INDUSTRIES, INC. 800 DART AEROSPACE			
EC135 CABLE CUTTERS KIT			
SIZE	CAGE CODE	DWG. NO.	REV.
B	07M26	647.7300	B
SCALE NONE		SHEET 1 OF 8	